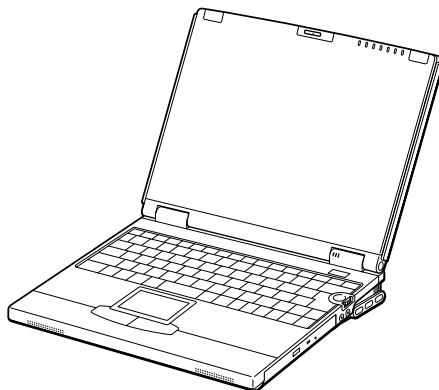


PCG-XG500/XG700

SERVICE MANUAL

US Model
Canadian Model



Illust : PCG-XG700

 **S400**



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NOTEBOOK COMPUTER

SONY®

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

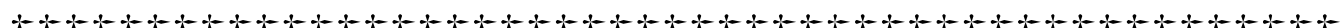
CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.

Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.



Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

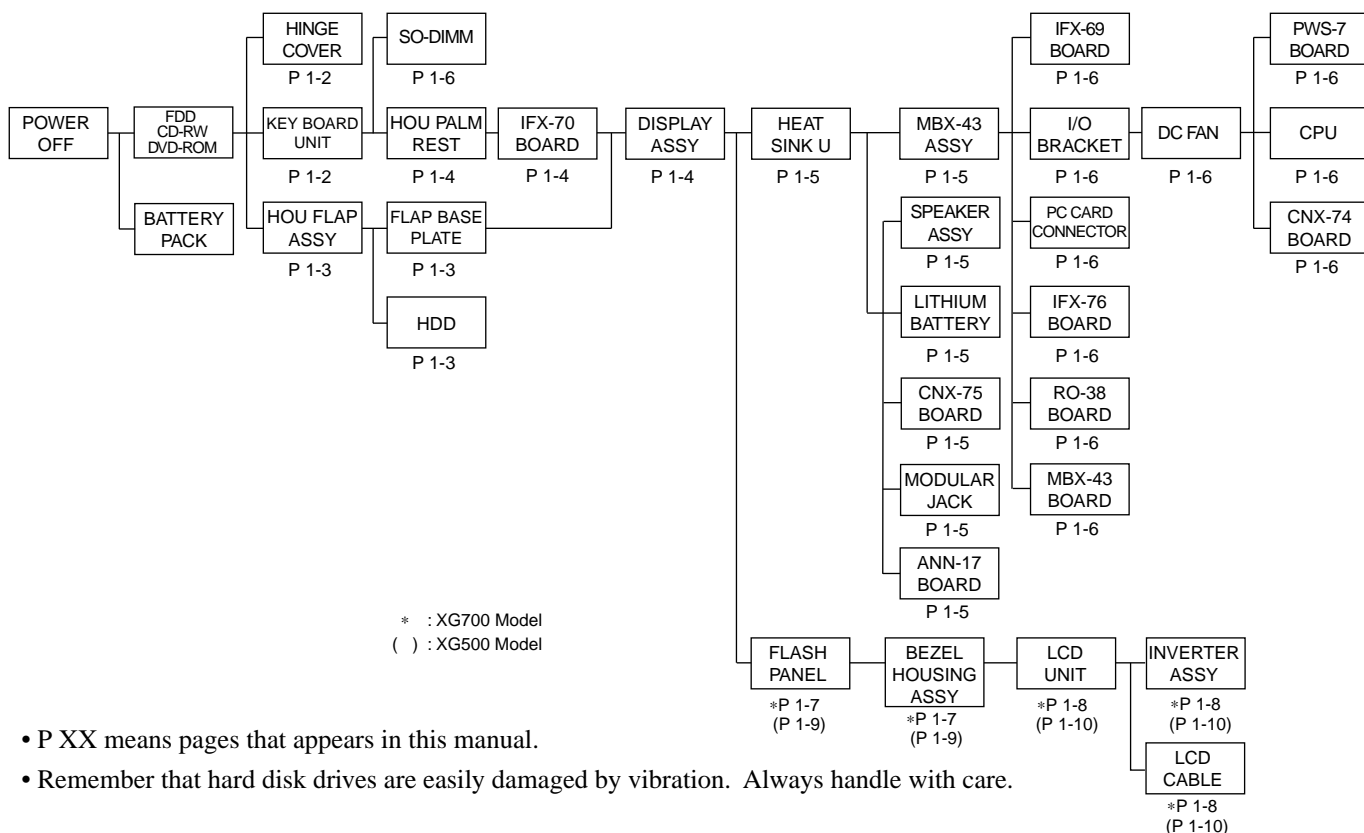
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

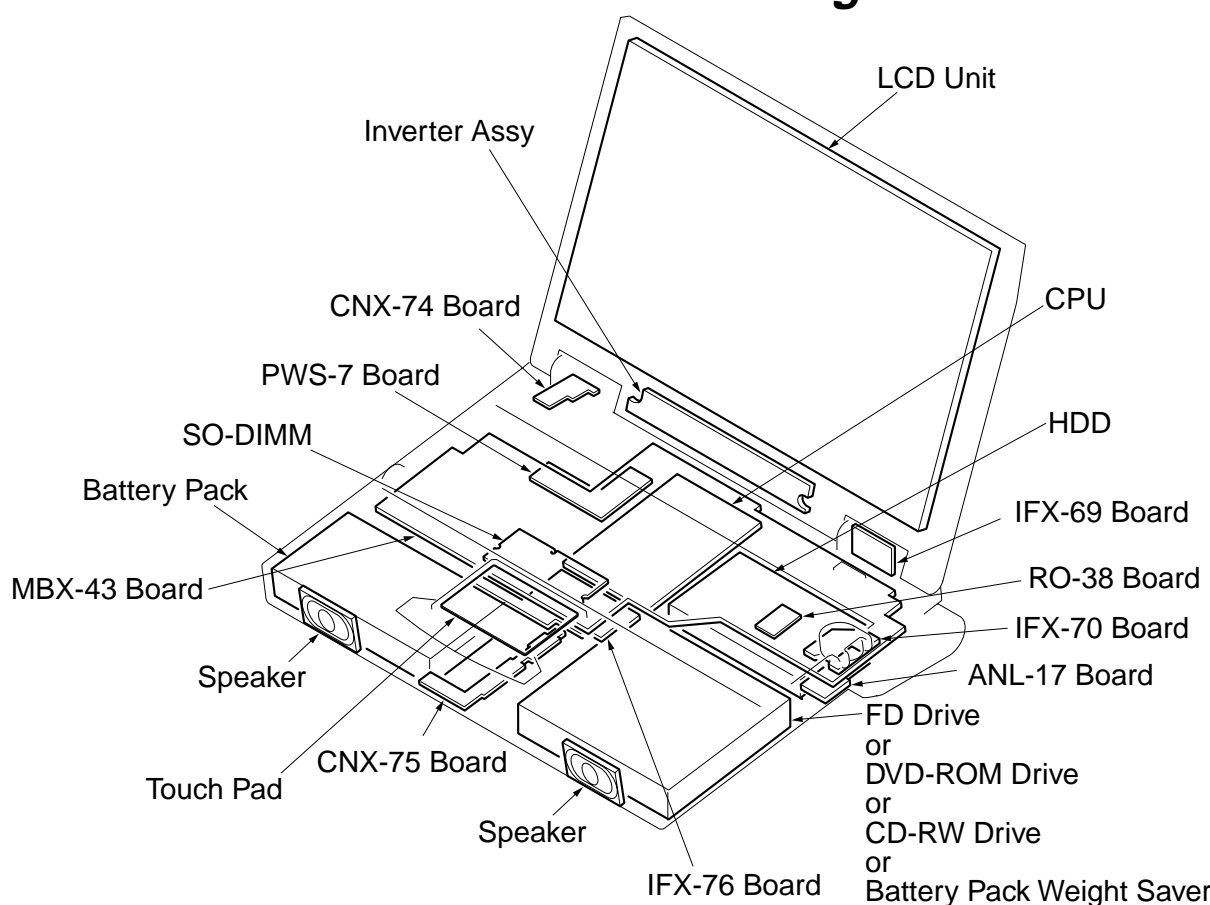
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	UC : US model / Canadian model	

1-1. Flowchart



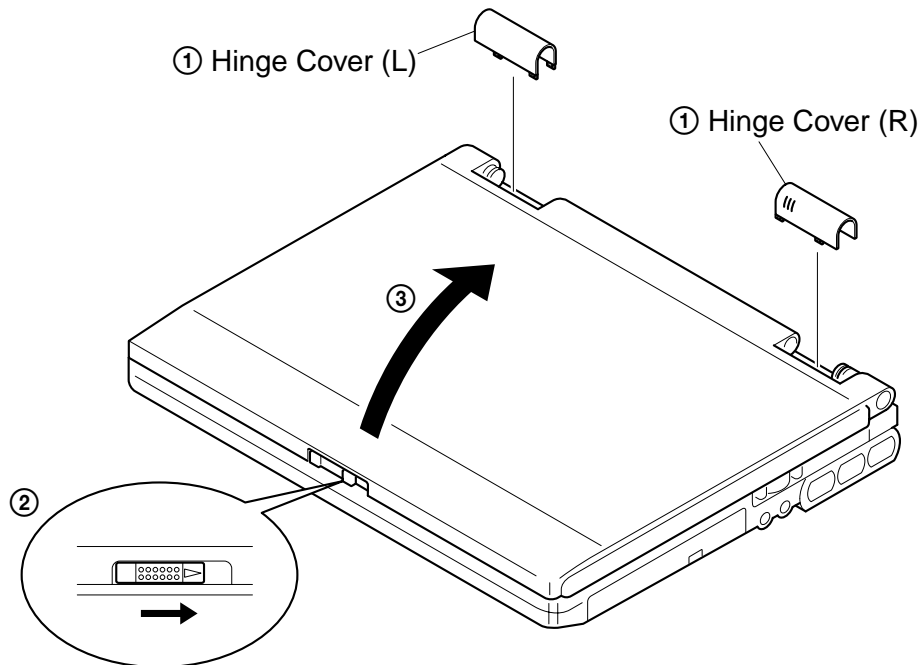
1-2. Main Electrical Parts Location Diagram



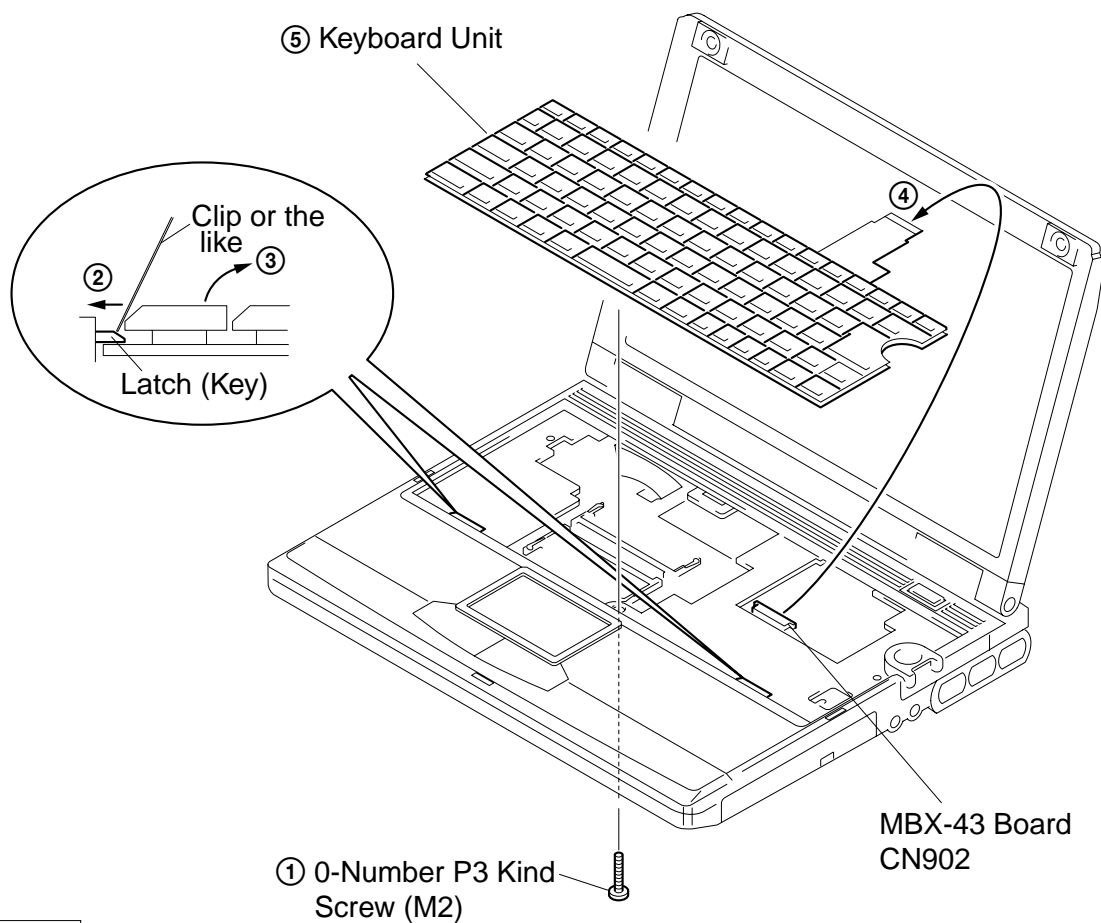
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1-3. Removal

1. Hinge Cover

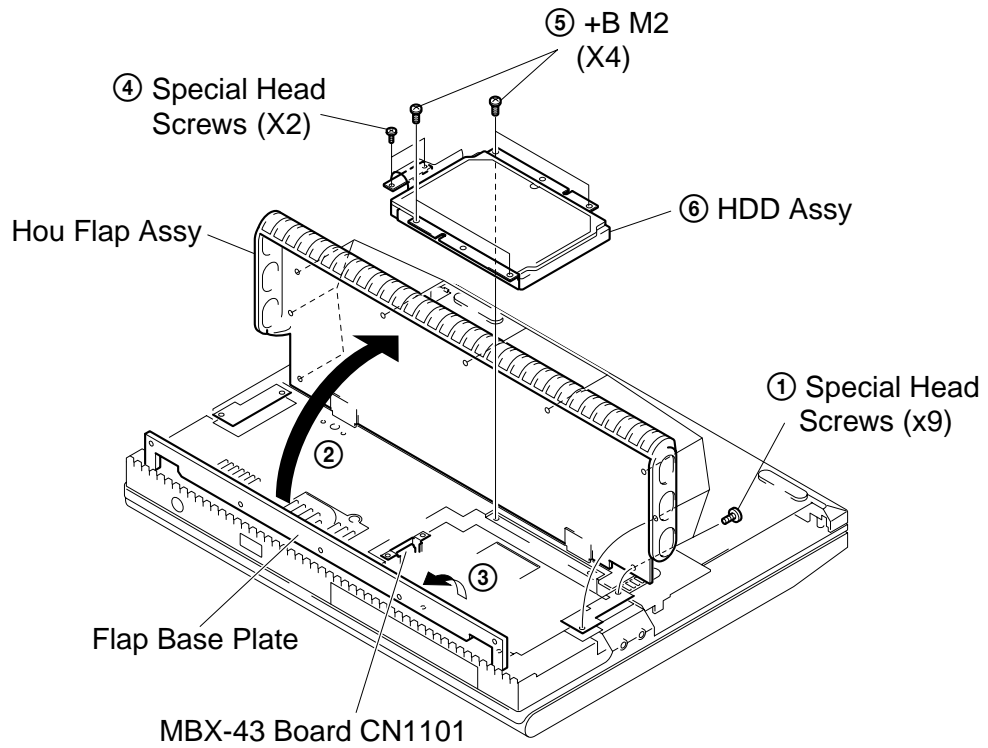


2. Keyboard Unit

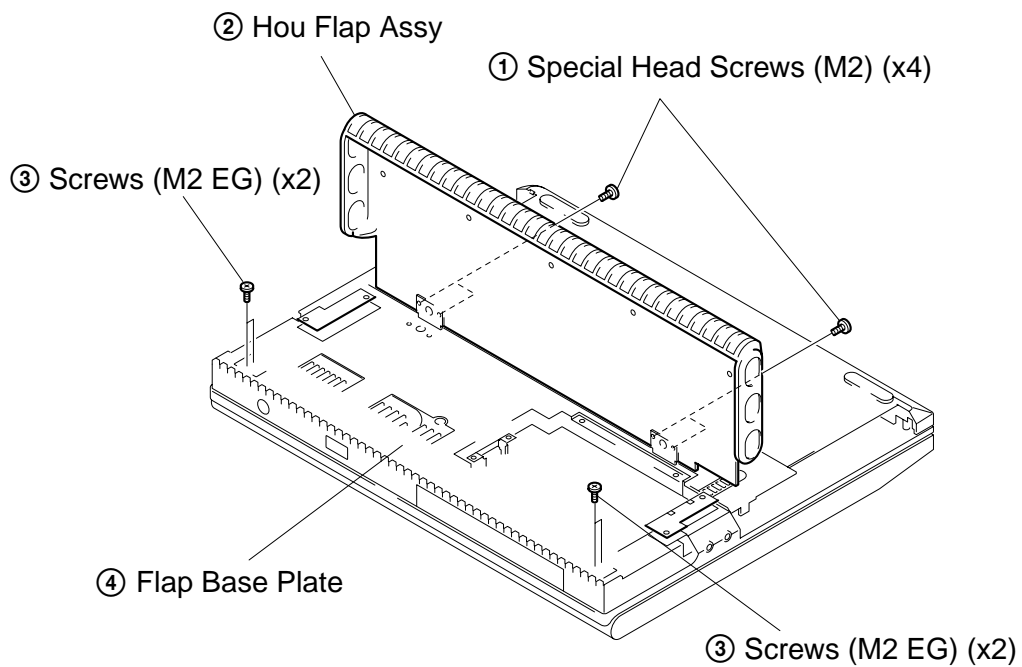


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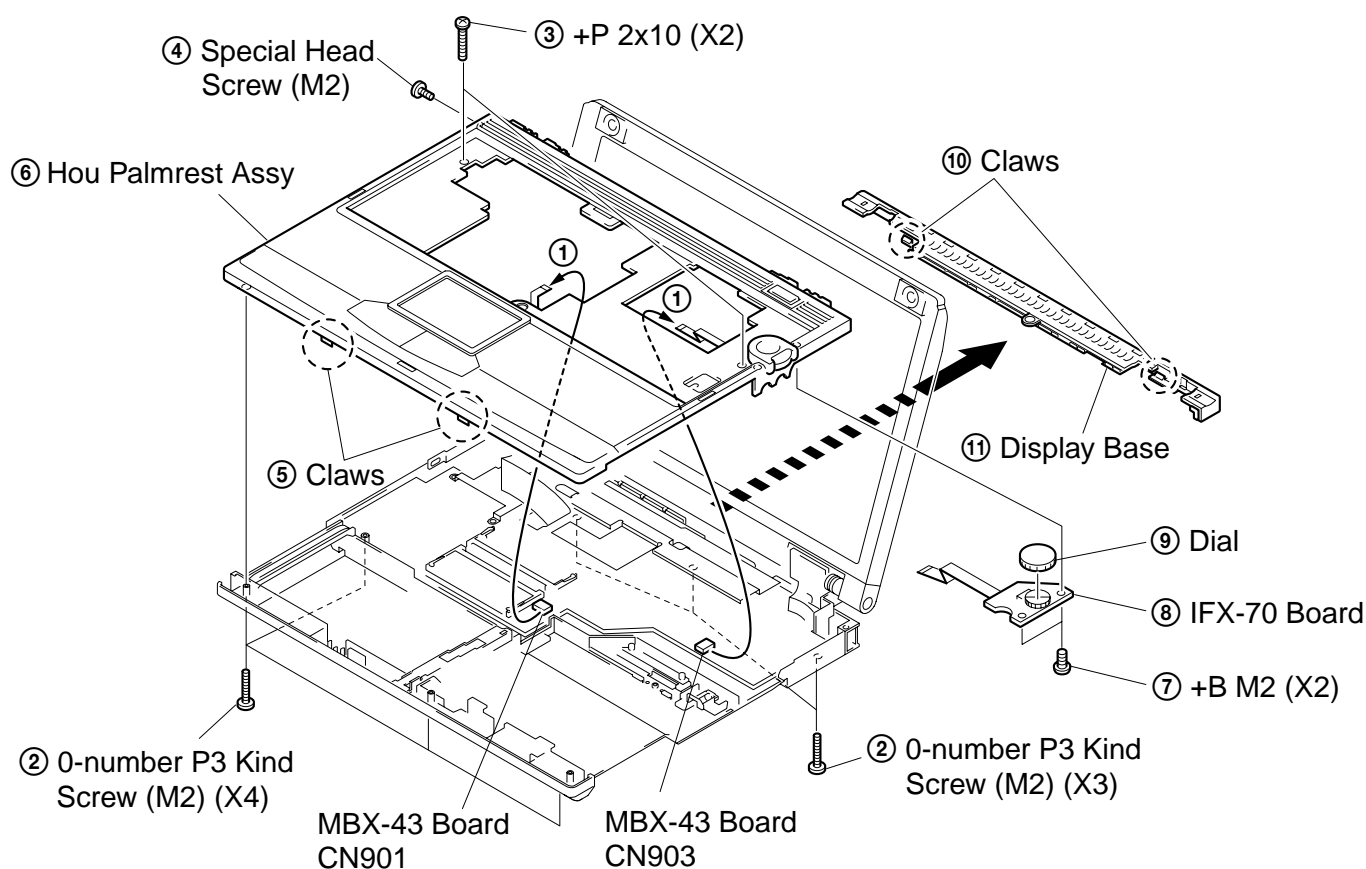
3. HDD Assy



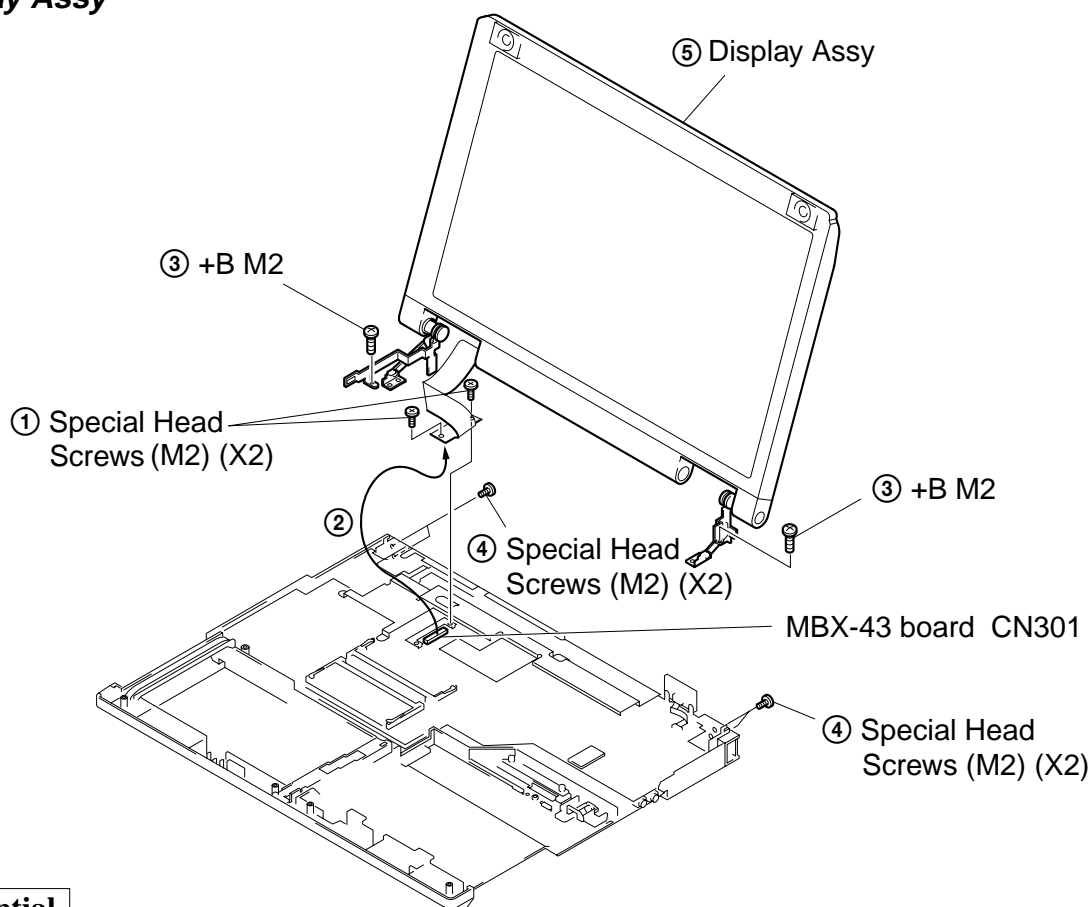
4. Hou Flap Assy, Flap Base Plate



5. Hou Palmrest Assy, Display Base, IFX-70 Board

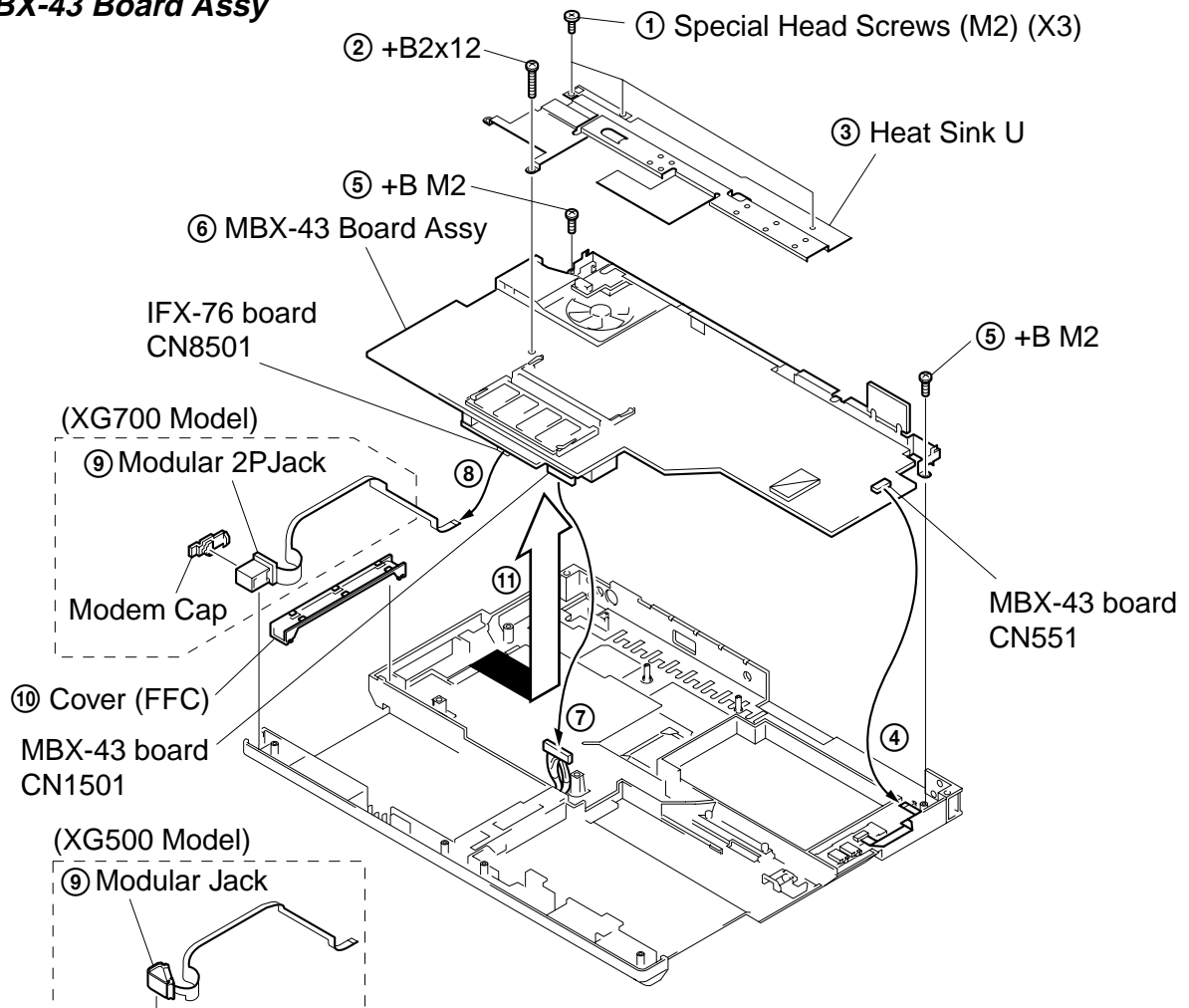


6. Display Assy

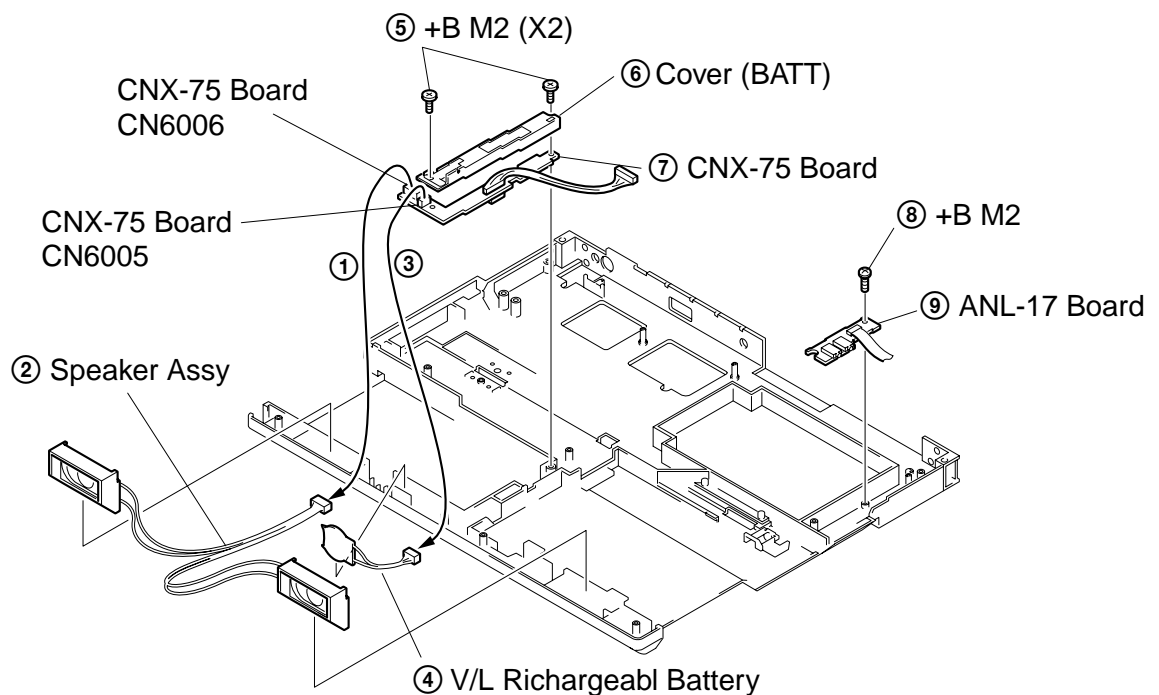


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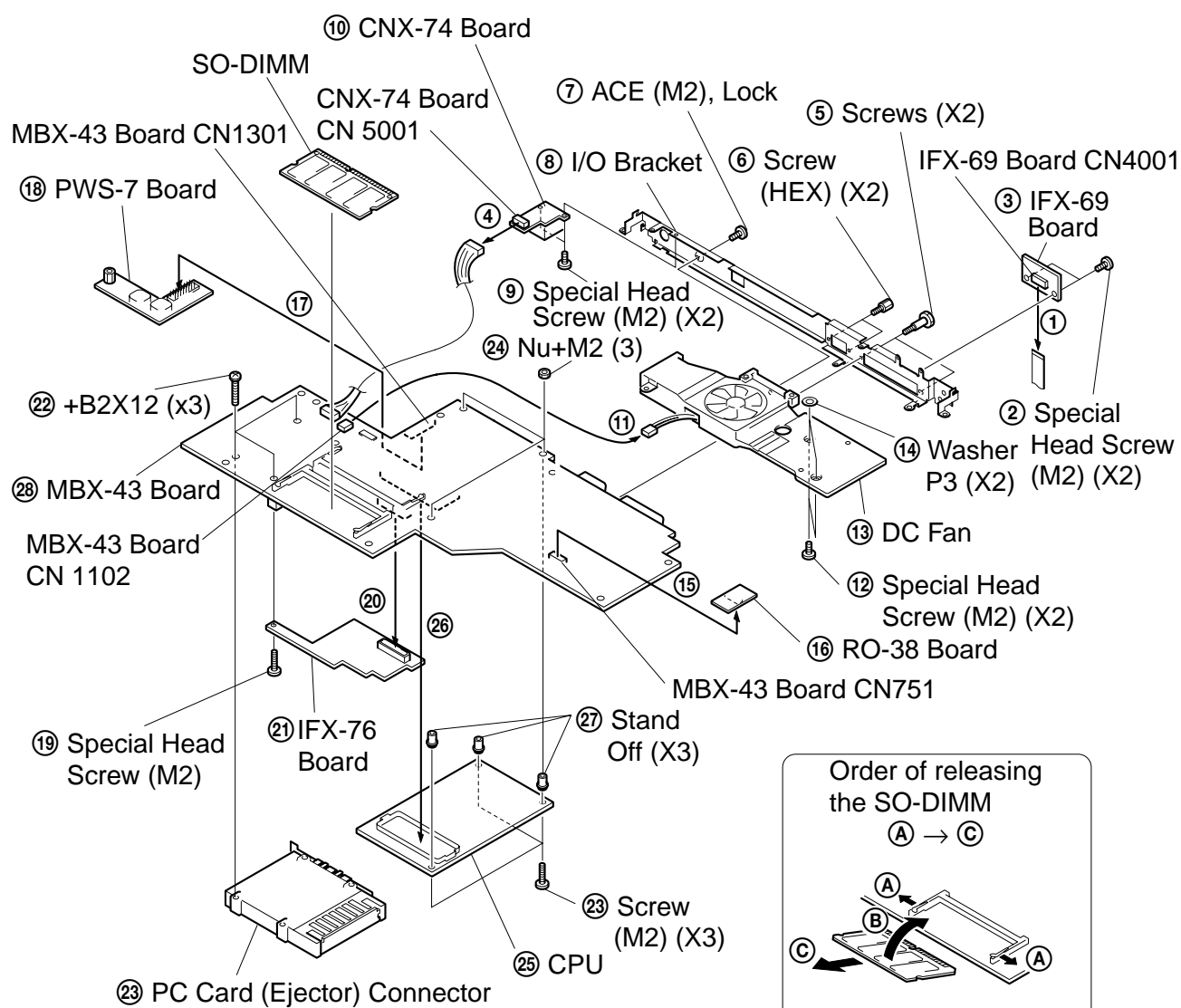
7. MBX-43 Board Assy



8. Speaker Assy, V/L Rechargeable Battery, CNX-75 Board, ANL-17 Board

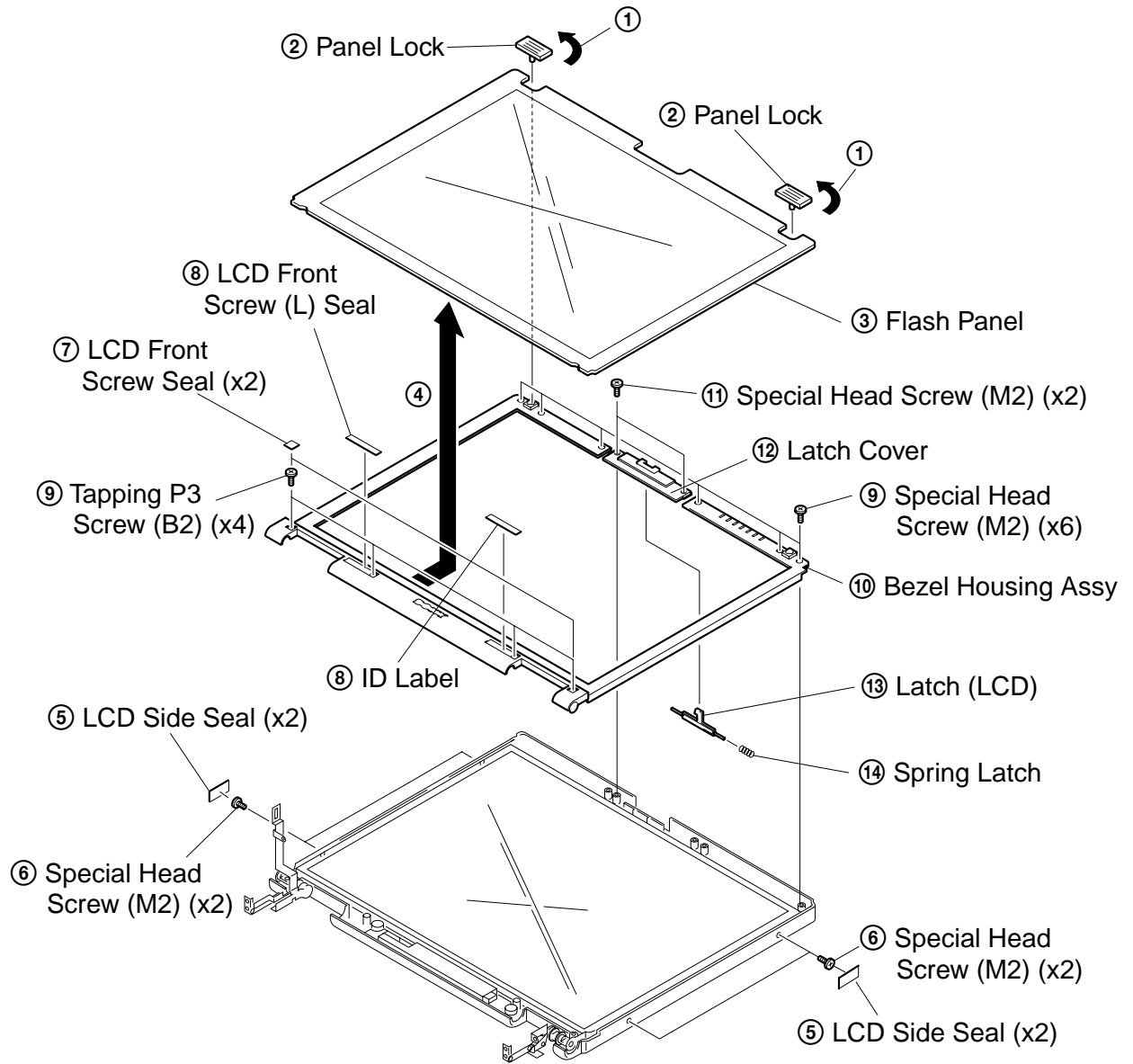


9. IFX-69 Board, CNX-74 Board, RO-38 Board, PWS-7 Board, IFX-76 Board, MBX-43 Board

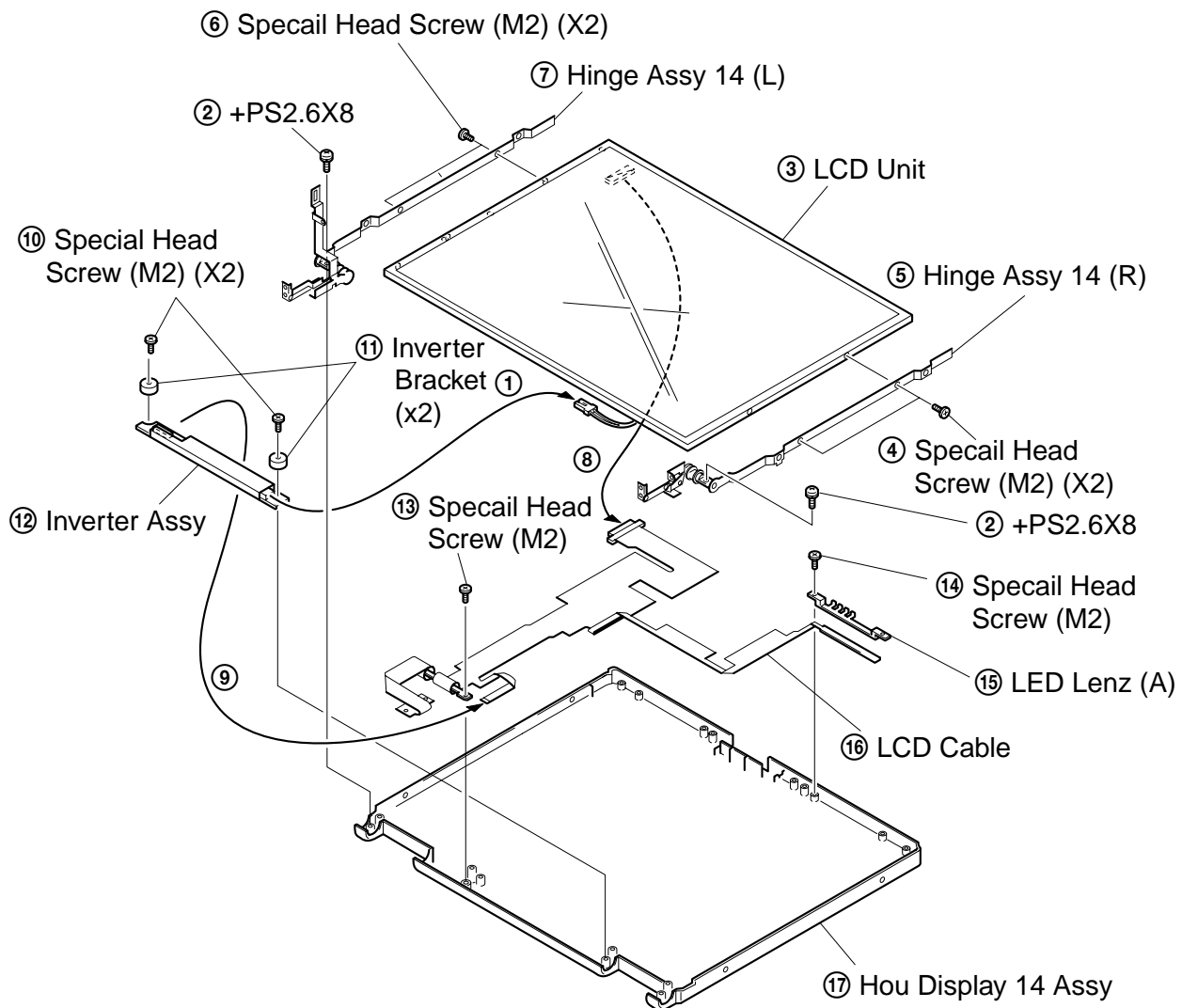


10. LCD Section (XG700 Model) – Made by HI –

1. Flash Panel, Bezel Housing Assy

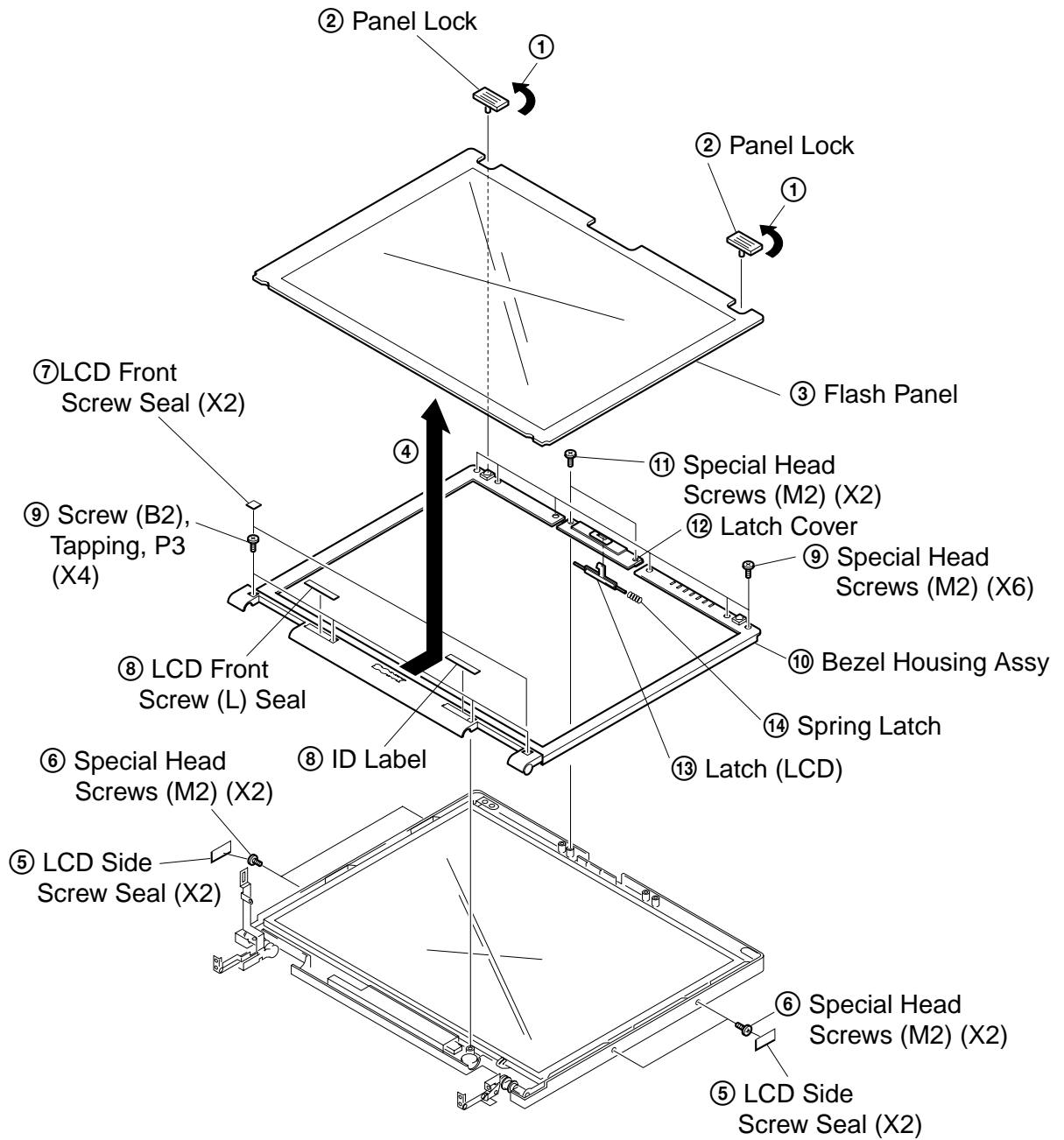


2. LCD Unit, Inverter Assy, LCD Cable

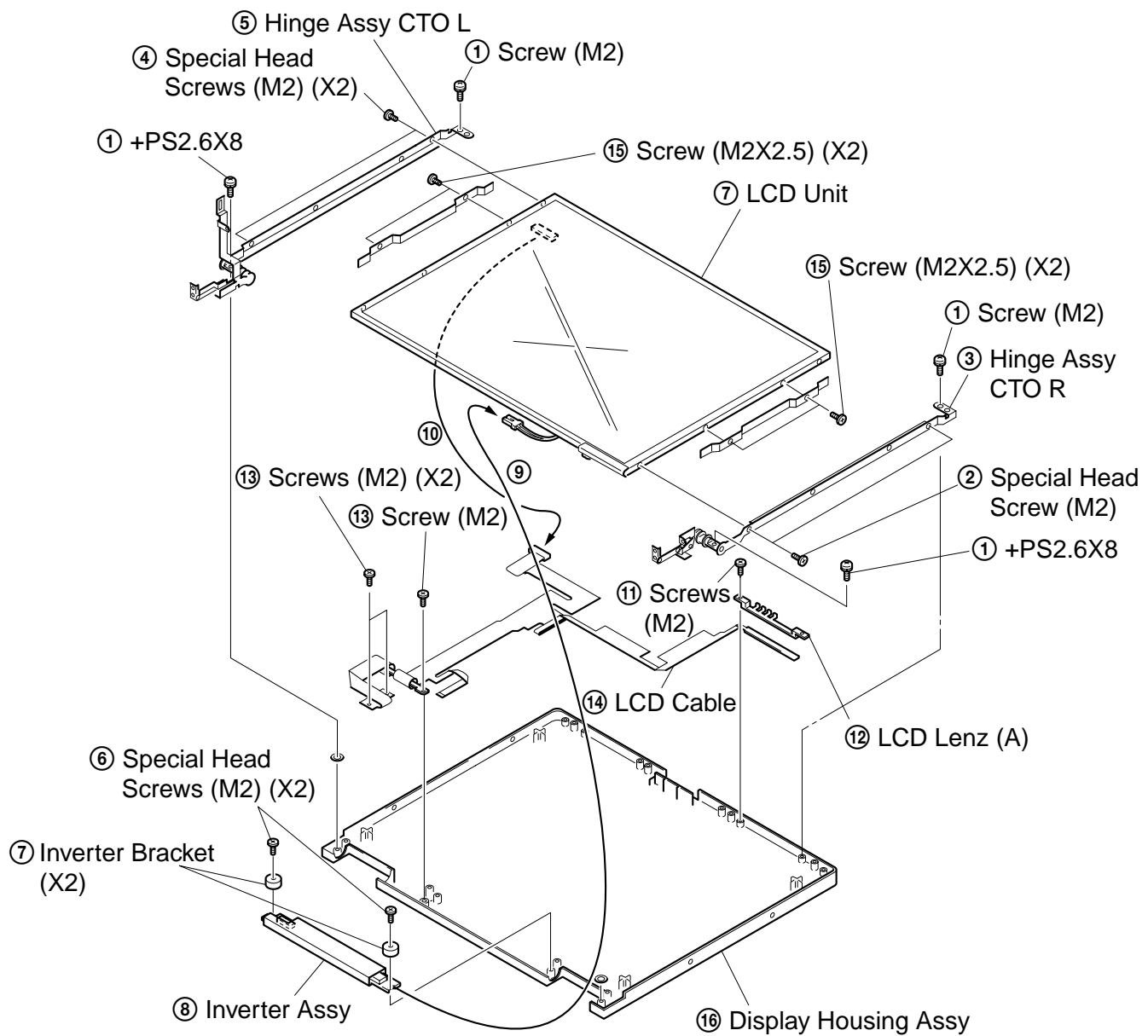


11. LCD Section (XG500 Model) – Made by SA –

1. Flash Panel, Bezel Housing Assy



2. LCD Unit, Inverter Assy, LCD Cable



CHAPTER 2.

SELF DIAGNOSTICS

2-1. Required Tools and Peripheral Devices

	Tools and Peripheral Devices	Test Items
1	Serial Loopback Tool Specified Loopback Tool (Refer to next page.)	Serial Port (COM) test
2	Parallel Loopback Tool Specified Loopback Tool (Refer to next page)	Parallel Port (printer) test
3	Stereo microphone	Audio related tests
4	Headphone	
5	56K Modem and Line Simulator	Modem test
6	PC Card Tester PCCtest 450 Made by Sycard Corp.	PC Card test
7	PCG-X series VAIO for IrDA Function/IEEE1394 Test	IrDA/IEEE1394 test
8	Mini Docking Station PCGA-PSX1 for Serial/Parallel Tests	Serial/Parallel Tests
9	DVD-ROM/CD-RW Bay supplied	DVD-ROM/CD-RW tests
10	External FDD and supplied FDD Cable	FDD test
11	Diagnostics FD Media	(Diagnostics starting software)
12	Diagnostics CD-ROM Media	(Diagnostics software)
13	Battery supplied	Battery related tests
14	AC Adaptor supplied	(Power supply for diagnostics)
15	HDD	HDD related tests

[Reference] On Serial/Parallel Loopback Tool

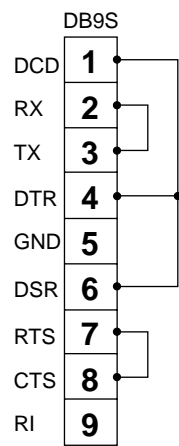
- The serial loopback tool and the parallel loopback tool are necessary for diagnostics of the serial communication line and the parallel communication line. Fabricate the serial loopback tool and the parallel loopback tool locally referring to the connection diagrams shown below.

Serial Loopback Tool : For diagnostics of serial port

SERIAL LOOPBACK CONNECTOR CONNECTION DIAGRAM

- Connector Types DB9S (Female)
- Interface Standard RS-232C
- Loopback Data & Handshake

NOTE: The black round mark "●" indicates soldering.

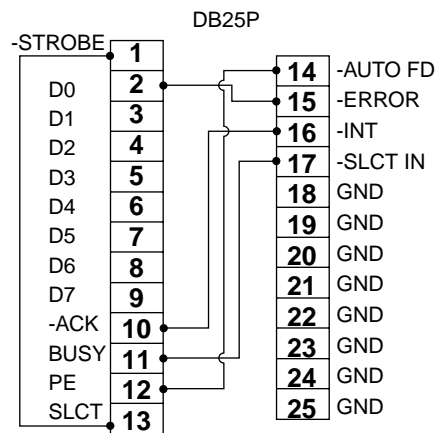


Parallel Loopback Tool : For diagnostics of parallel port

PARALLEL LOOPBACK CONNECTOR CONNECTION DIAGRAM

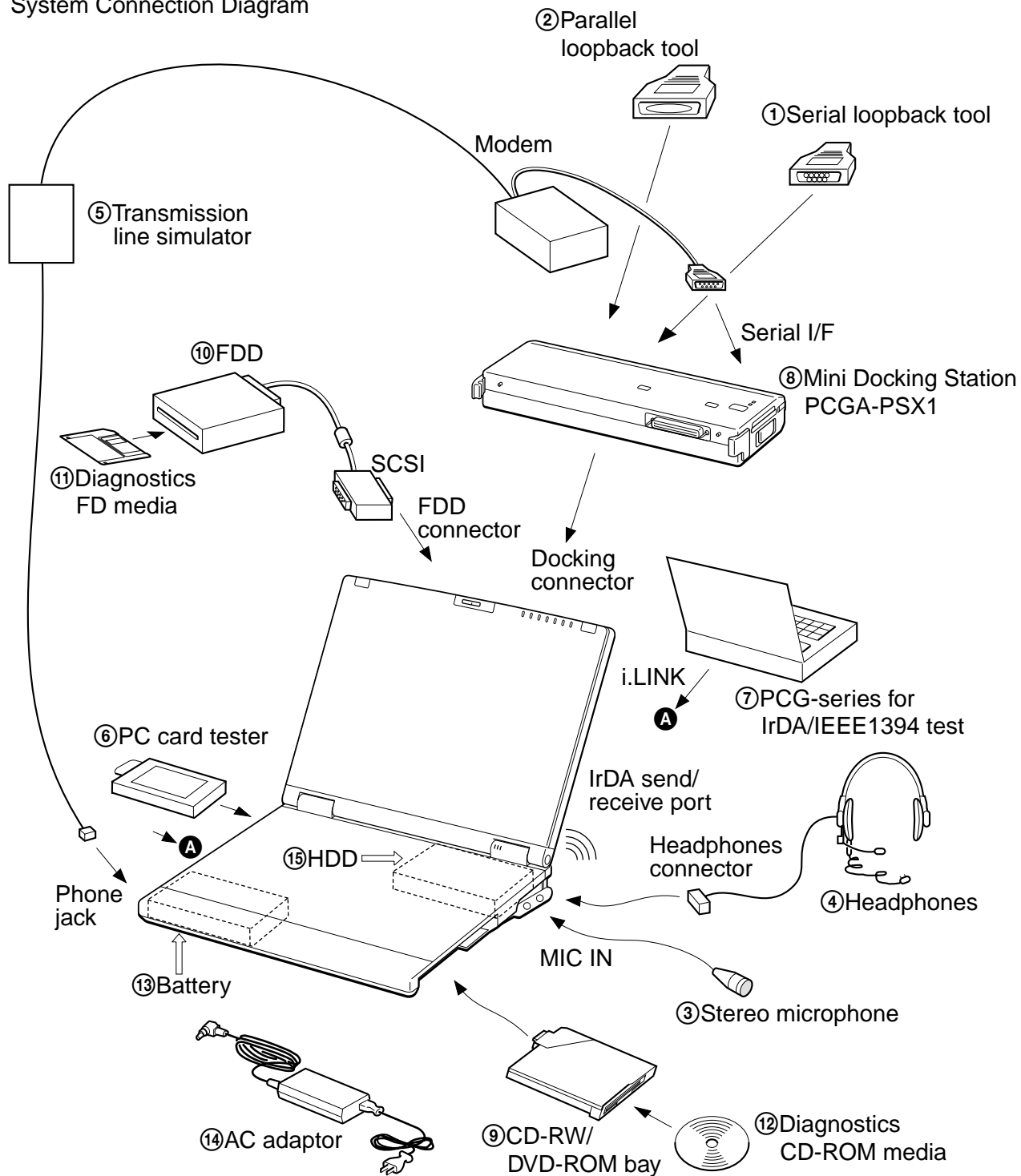
- Connector Types DB25P(Male)
- Interface Standard Centronics
- Loopback Status to Commands

NOTE: The black round mark "●" indicates soldering.



2-2. Tools and Peripheral Device Connection

System Connection Diagram



2-3. Starting up the Service Diagnostics

1. The service diagnostics floppy disk and CD disc are prepared for the respective models separately. Insert the service diagnostics floppy disk and CD disc of the desired model, then turn on the main power of the personal computer. Reads automatically the model information stored in the CD-ROM and displays the test menu. If the CD does not supported the model, an error message is displayed.
2. The driver software is installed from the CD disc, the necessary ROM information is automatically read and the initial settings are made, then the following self-diagnostics menu appears.

```
***** Main Menu *****  
  
1:Check ROM Information...      d:Parallel Loopback test...  
2:Battery test...              e:PC Card Slot test...  
3:CD/DVD Drive test...         f:Video test...  
4:FDD test...                  g:PPK test...  
5:HDD test...                  h:GUID (IEEE1394) test...  
6:Keyboard test...             i:IEEE1394 Interface test...  
7:LED test...                  j:IrDA test...  
8:Main memory test...          k:Jog dial test...  
9:Main system test...          l:Short aging test...  
a:FAN test...                  m:Long aging test...  
b:Touch pad test...            n:Aging test including the HDD test...  
c:Serial Loopback test...      o:Exit from Diagnostics MENU
```

3. When the service diagnostics ends with success, the message “Pass” appears. When it ends with failure detecting an error, the message “Fail” appears. Press the “Esc” key to abort the self diagnostics.

2-4. Outline of Service Diagnostics Functions

- Check ROM Information...
Displays the model information, serial number, BIOS and other information saved in the BIOS ROM.
Does not test whether or not the personal computer is normal.
- Battery test...
Tests the battery as to whether the battery is attached or removed, the main power is supplied from an AC power adapter or not, and the battery is charged or discharged. The test procedure appears on display. Perform the battery test following the messages on display.
Remove and attach the battery → Check (Removal and attachment of battery)
Disconnect and connect the AC power → Check (Disconnection and connection of AC power)
Remove and attach the battery → Check (Discharge and charge of battery)
- CD/DVD Drive test...
Tests the CD, CD-R, CD-RW and DVD drives.
- FDD test...
Tests the floppy disk drive.

- HDD test...

Tests whether the HDD returns a response when communication is established with the hard disk drive. The HDD can be tested without damaging the HDD data (without formatting the HDD) in this test since the HDD data is tentatively stored in memory during the test.

If the main power is turned off by mistake while the test is under way, the HDD data can be damaged. Tests the following test automatically.

1. HDD interface test (Tests whether or not the HDD is recognized)
2. HDD seek test
3. HDD read test
4. HDD write test
5. HDD random read test and random write test (It takes about 2 hours for the 18 GB HDD. This time is a guideline and changes depending on the model.)
6. Returns to the main menu.

- Keyboard test...

Tests the keyboard. When the “Auto select” menu is selected, the keyboard type in use is recognized from the model information that is written in ROM when shipped from the factory and the test is executed accordingly. When a specific keyboard type is selected such as US, UK, or JP, then the keyboard of the selected type is tested. If the model of your computer is JP and the keyboard type is replaced by either the US type or UK type keyboard, select the keyboard type after it is replaced.

NOTE: The “Fn” key can be checked by pressing the “Fn” and “→” keys at the same time. Other keys can be checked by pressing the respective keys.

- LED test...

Tests the LED. This test turns on one LED after another. The person conducting the test must visually check whether each LED is normal or not.

- Main Memory test...

Tests the main memory. The Main Memory test contains the following three test menus. Select the desired menu that suits your need. The test is exited automatically when the respective test items end normally.

- Fast: Tests once. (Taking one and half minutes to two minutes)
- Medium: Test ten times.
- Heavy: Test twenty times.

Press the “Esc” key to abort the test.

- Main System test...

Tests the fundamental functions of the CPU, etc. The test is exited automatically when all test items end normally.

- FAN test...

Tests the fan. Tests whether the fan rotates and stops. Listen to the rotating sound or feel the wind of the fan to judge whether the fan rotates and stops. The test procedure appears on display. Perform the FAN test following the messages on display. Press “Y” to resume rotation when the fan comes to stop. Press “Y” when the fan starts rotating indicating that the test ends in success.

- **Touch pad test...**
Tests the touch pad. Tests whether the cursor moves, and whether right-clicking and left-clicking function properly.
The dialog box appears three times. Move the cursor to the box that appears. The tests are performed in the following order.
 - (1) Touch pad
 - (2) Left-click button
 - (3) Right-click button (Two times)
- **Serial loopback test...**
Performs the loopback test of the serial port. Connect the port replicator and the loopback tool to the serial port.
- **Parallel loopback test...**
Performs the loopback test of the parallel port. Connect the port replicator and loopback tool to the parallel port.
- **PC card Slot test...**
Tests the PC card slot. Implements the 16-bit/card-bus test for the two slots of the main unit.
- **Video test...**
NOTE: Because this test is performed by visual inspection, confirm first the normal video picture, then start the test.

Tests the video signal. Several video patterns appear every time the key is pressed. The person conducting the test must visually check whether the patterns appear properly. Press Y when there is no abnormality.
- **PPK test...**
The computer cannot perform this test.
- **GUID test...**
This test is not required normally. Displays the GUID (i.Link ID value), and judges whether the value on the display is appropriate.
- **IEEE 1394 Interface test...**
Performs the 1394 communication test. Another personal computer to communicate with is necessary for this test. The models released from the year 2000 have already been confirmed that they do not cause any problems regarding the IEEE1394 interface. Even models released before 2000 will cause no problem if the same type of IEEE1394 interface IC chip (the IC chip used in the iLink block connected to the PCI bus) is used in both personal computers that are connected. In other combinations, the IEEE1394 interface test is not confirmed. (Use of the models released from the year 2000 is recommended.)
 1. Connect the iLink cable.
 2. Start up the personal computer at the other end of the IEEE1394 interface test connection using the tool floppy disk that must be created beforehand by copying programs from the service diagnostics CD disc. (Prepare a floppy disk that is formatted to contain the DOS system. Create a tool floppy disk by copying the entire TOOL folder of the CD disc to a floppy disk.)
 3. Select the 1394 test from the menu at the connected computer to enter the reception state.
 4. After the connected personal computer has entered the reception state, select the 1394 test at the personal computer to be tested. The IEEE1394 interface test then starts. Send and receive of the random data are repeated five times (i.e., this test is repeated five times.)

- IrDA test...

Performs the IrDA communication test. Another personal computer to communicate with is necessary for this test. The models released from the year 2000 have already been confirmed that they do not cause any problems regarding the IrDA communication. Even models released before 2000 will cause no problem if the same type of IrDA communication IC chip (the IC chip used in the SIE block connected to the Extend I/O bus) is used in both personal computers that are connected. In other combinations, the IrDA communication test is not confirmed. (Use of the models released from the year 2000 is recommended.)

1. Place the two computers so that their IrDA transmitter and receiver ports face each other.
2. Start up the personal computer at the other end of the IrDA communication test connection using the tool floppy disk that must be created beforehand by copying programs from the service diagnostics CD disc. (Prepare a floppy disk that is formatted to contain the DOS system. Create a tool floppy disk by copying the entire TOOL folder of the CD disc to a floppy disk.)
3. Select the IrDA communication test from the menu at the connected computer to enter the reception state.
4. After the connected personal computer has entered the reception state, select the IrDA communication test at the personal computer to be tested. The IrDA communication test then starts.

- Jog dial test...

Tests the revolution and clicking of the jog dial. Angle brackets <> appear when the jog dial test is selected. Rotate the jog dial clockwise (upwards) until it moves to the mark (^_^) then press the jog dial. The mark (^_^) appear will on the top of the screen. Then rotate the jog dial counter-clockwise (downwards) until it moves to the mark (^_^) then press the jog dial.

- Short aging test.../Long aging test...

Performs the aging test. The short aging test ends when all test items have been performed once. The long aging test checks the machine for about 10 hours by repeating the test items.

- Aging test including the HDD...

NOTE:Note that this test destroys the entire contents of the user's hard disk drive.

Perform this test only when destructive testing of HDD is desired.

The aging test is performed first, then read and write tests of the hard disk are implemented following the aging test.

There are two tests; SHORT and LONG. However, the contents of the SHORT aging test are the same as those of the LONG aging test. The test starts immediately when the menu item is selected.

- Exit from Diagnostics MENU...

Quits the service diagnostics program and the DOS prompt appears. If you exit the service diagnostics program by mistake, start up the program again.

2-5. Inspecting Windows

The Windows inspection contains the following two types of inspection.

Audio
Modem

Before starting inspections, create a floppy disk from the service diag CD to be serviced.

The files to be used for inspection are stored in the following sub directory inside the CD. Copy all the files in the folder to the floppy disk.

Audio \windiag\wave
Modem \windiag\modem

- Audio

A microphone and headphones are required for this inspection.

Double-click “t_auw01” icon (MS-DOS icon) in the floppy disk that is created in advance. The display of the DOS prompt opens and the inspection starts. Once inspection starts, follow the instructions on the display to inspect the audio.

- Modem

A modem and a line simulator are required for this inspection.

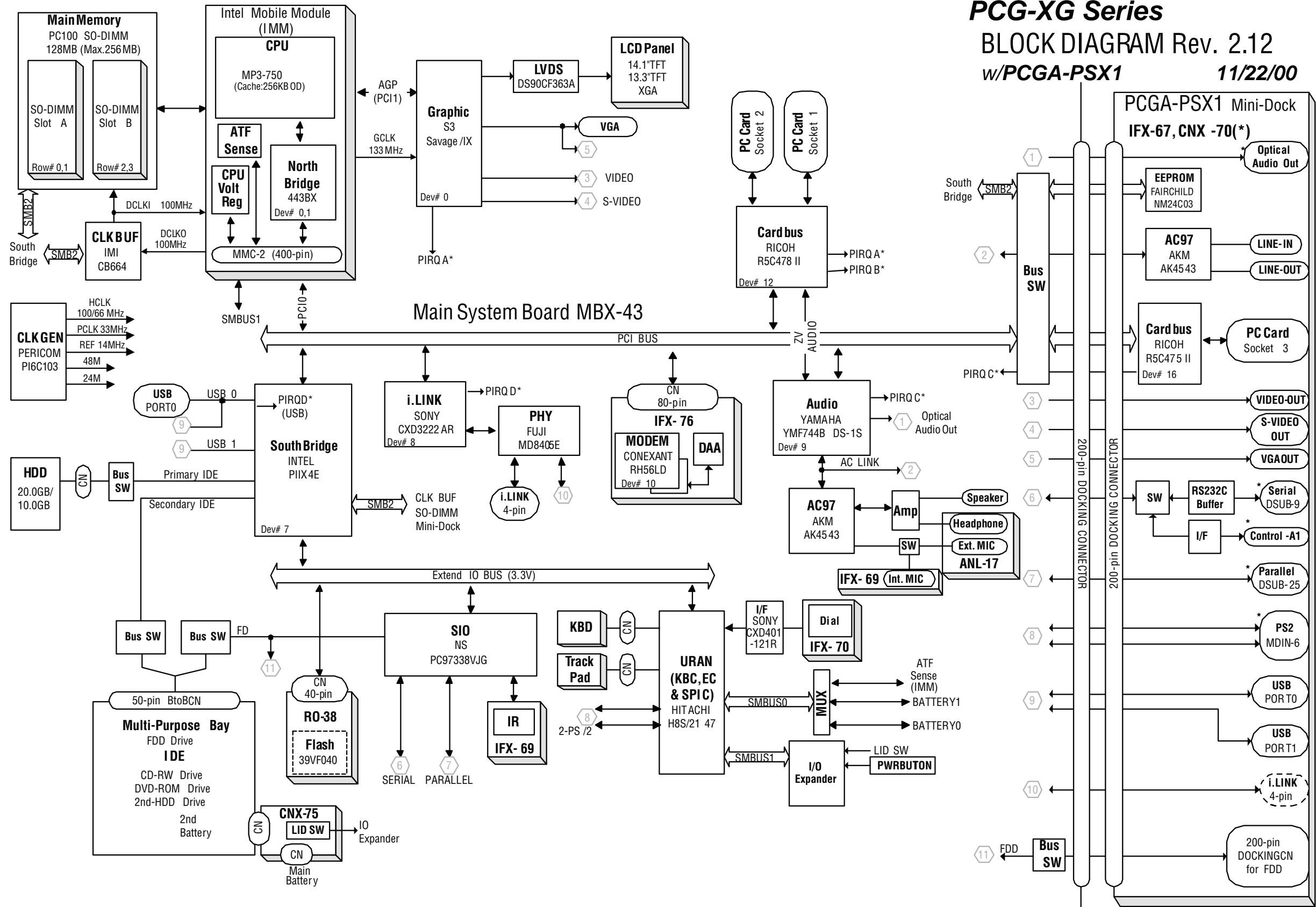
Double-click “modem” icon (MS-DOS icon) in the floppy disk that is created in advance.

The display of the DOS prompt opens and the inspection starts.

2-6. Self diagnostics Change History

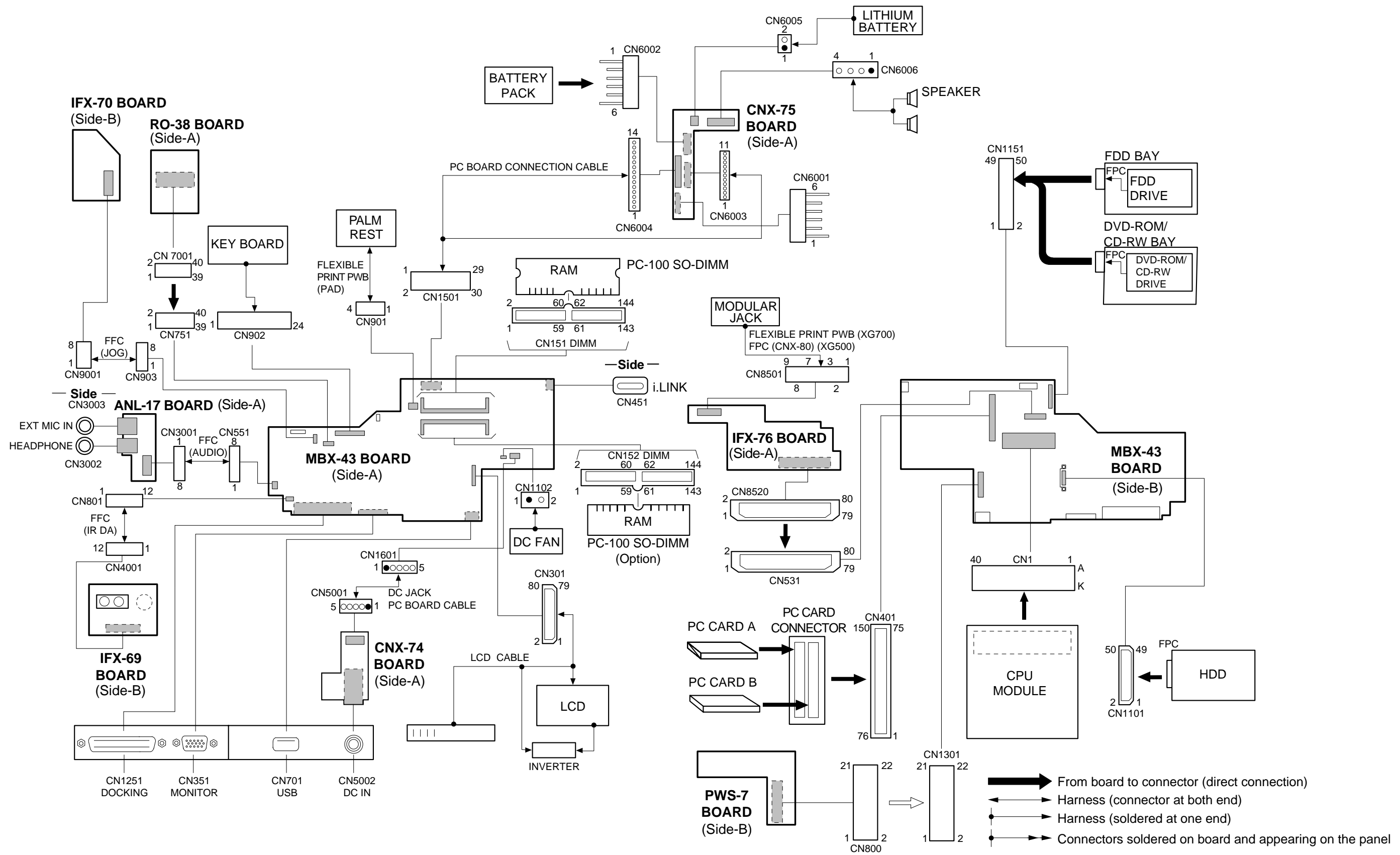
Date of issuance	Model	Item	Contents
2001/1	PCG-XG500 PCG-XG700		Announcement of change history starts.
		2-1	“ 1.Serial Port (COM) test ” is added.
			“ 8.Mini Docking Station PCGA-PSX1 for Serial/Parallel Tests ”, “ Serial/Parallel Tests ” : Name and contents are changed.
			“ 9.DVD-ROM /CD-RW Bay supplied ”, “ DVD-ROM/CD-RW Tests” : Name and contents are changed.
			Serial Loopback Connector Diagram is added to [Reference].
		2-2	“ ① Serial Loopback tool ” is added.
			“ ⑦ PCG series for IrDA/IEEE1394 test ” : Its contents and title of illustration are changed.
			“ ⑨ CD-RW bay/DVD-ROM bay ” : Its contents and title of illustration are changed.

CHAPTER 3. BLOCK DIAGRAM



CHAPTER 4.

FRAME HARNESS DIAGRAM



EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- When two or more parts are shown in parallel, use the part described first as the main part.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

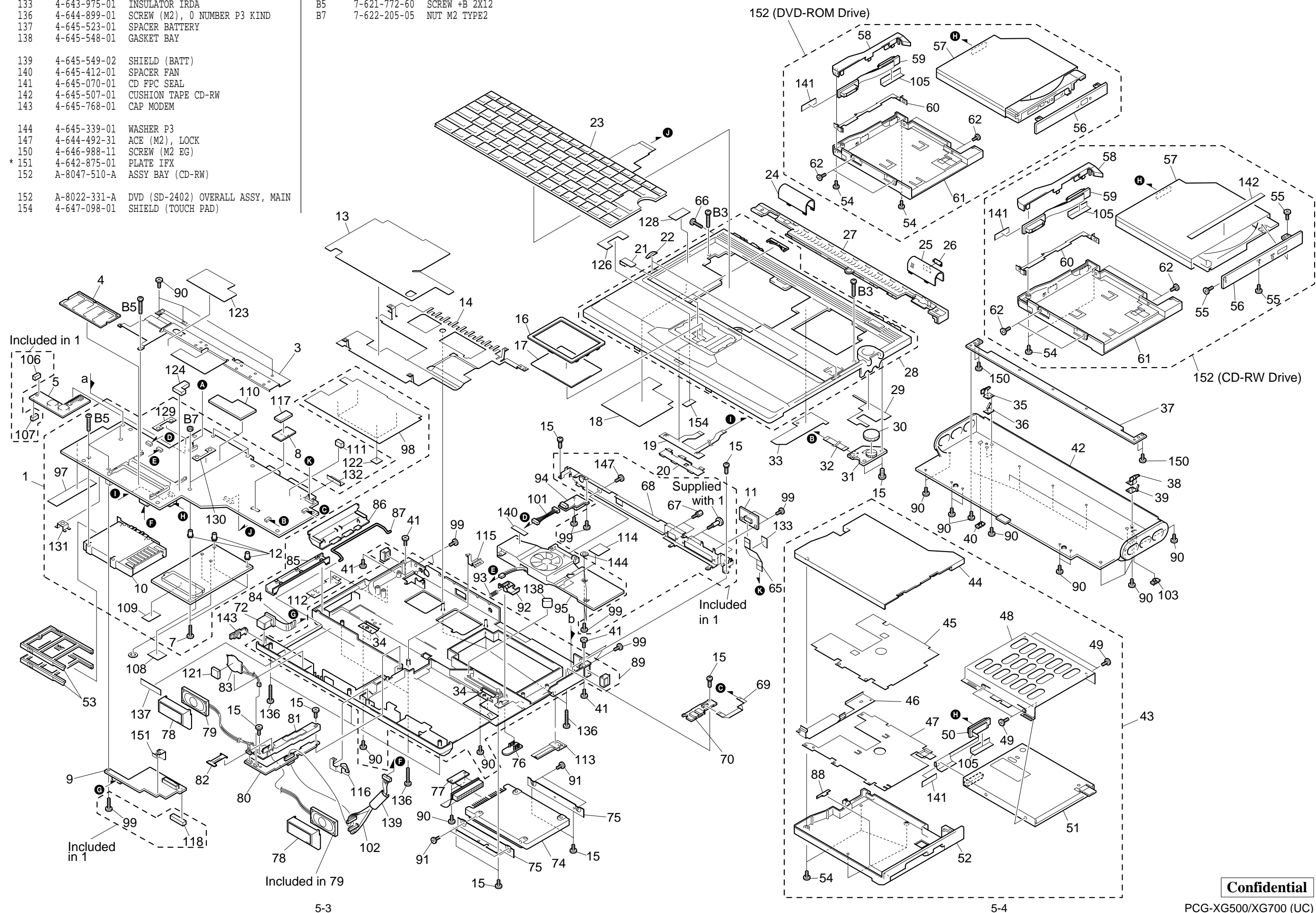
5-1. Main Section (XG700 Model)

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
1	A-8049-130-A	MBX-43 (P3 750) 1910 ASSY (S)	61	X-4622-387-6	ASSY CD BRKT UNDER
* 3	4-642-786-01	HEAT SINK U	62	4-641-726-31	SCREW (M2), SPECIAL HEAD
4	8-759-665-37	IC KMM464S1724BT1-FL (128MB)	65	1-791-145-11	FFC (IRDA)
5	A-8066-166-A	COMPLETE PWB PWS-7	66	4-641-655-11	SCREW (M2), + SPECIAL HEAD
7	3-740-546-21	SCREW (M2)	* 67	4-635-966-01	SCREW (HEX)
8	A-8056-719-A	RO-38 (X) COMPLETE PWB	* 68	4-642-776-01	BRACKET I/O
9	A-8066-164-A	COMPLETE PWB IFX-76 (U)	69	1-791-146-11	FFC (AUDIO)
10	1-793-360-11	CONNECTOR, PC CARD (EJECTOR)	70	A-8056-329-A	COMPLETE PWB ANL-17
11	A-8056-331-A	COMPLETE PWB IFX-69	72	1-565-999-11	JACK, MODULAR 2P
12	4-637-921-02	STAND OFF	74	1-772-859-11	HDD (20.0GB)-MK2016GAP
* 13	4-643-383-01	INSULATOR HEAT (B)	* 75	4-642-777-01	HD BRACKET (A)
* 14	4-642-787-02	HEAT SINK B	76	4-642-781-02	BUTTON BAY LATCH
15	4-642-852-31	+B M2	77	1-791-144-11	PWB, (HDD) FLEXIBLE
16	4-642-794-03	COVER (PAD)	* 78	4-643-215-01	CUSION SPEAKER
17	1-772-529-11	PAD, TOUCH	79	1-529-455-11	SPEAKER (40X20MM)
18	4-643-379-01	INSULATOR PALM (L)	80	A-8056-325-A	COMPLETE PWB CNX-75
19	1-791-147-11	PWB, (PAD) FLEXIBLE PRINT	81	4-642-783-01	COVER (BATT)
* 20	4-642-799-01	PLATE (SW)	82	4-645-919-01	LATCH DETECTOR 14
* 21	4-642-842-01	SPRING (PAD), PLATE	83	1-756-000-11	BATTERY, V/L RICHARGEABL
22	4-642-954-01	CUSHION (PALM)	84	1-677-886-12	PWB, FLEXIBLE PRINT
23	1-418-545-22	KEYBOARD UNIT	85	4-642-876-01	COVER FFC
24	4-642-795-01	COVER HINGE (L)	86	4-642-778-04	DOOR BATTERY
25	4-642-796-01	COVER HINGE (R)	87	4-642-779-01	SPRING HD DOOR
26	4-642-798-01	LENS IRDA	88	4-642-816-01	FD LENZ
27	4-642-789-01	DISPLAY BASE	89	X-4622-631-2	ASSY HOU BOTTOM 14
28	X-4622-632-3	ASSY HOU PALMREST 14	90	4-641-726-21	SCREW (M2), SPECIAL HEAD
29	4-643-380-01	INSULATOR PALM (R)	91	4-635-301-01	SCREW M3X4
30	4-642-855-01	DIAL	92	4-642-780-01	LATCH BAY
31	A-8056-327-A	COMPLETE PWB IFX-70	93	4-642-782-01	BAY LATCH SPRING
32	1-791-150-11	FFC (JOG)	94	A-8056-323-A	COMPLETE PWB CNX-74
33	4-643-381-01	INSULATOR PALM (M)	95	1-763-466-11	FAN, DC
34	4-642-819-01	HINGE FLAP	97	4-643-214-01	INSULATOR PC CARD
35	X-4622-787-2	ASSY FLAP LOCK L	98	4-643-382-02	INSULATOR HDD
36	4-642-837-04	LOCK PLATE L	99	4-641-726-01	SCREW (M2), SPECIAL HEAD
* 37	4-642-841-01	PLATE FLAP BASE	101	1-791-178-11	CABLE, DC JACK PC BOARD
38	X-4622-788-2	ASSY FLAP LOCK R	102	1-791-177-11	CABLE, PC BOARD CONNECTION
39	4-642-838-01	LOCK PLATE R	103	4-642-840-01	LEVER R
40	4-642-839-02	LEVER L	* 105	4-642-955-01	INSULATOR BAY FPC
41	4-641-726-51	SCREW (M2), SPECIAL HEAD	106	4-643-916-01	CUSHION PSW A
42	X-4622-675-1	ASSY HOU FLAP 2	107	4-643-917-01	CUSHION PSW B
43	A-8045-662-A	ASSY BAY (FD)	108	4-643-825-01	THERMAL SHEET NC
44	4-642-811-01	FD BRKT UPPER	109	4-644-350-01	SHEET, THERMAL
* 45	4-642-956-01	INSULATOR FDD	110	4-643-826-01	THERMAL SHEET NM
* 46	4-642-815-01	FD UNDER PLATE	111	4-643-915-01	SPACER SW POWER
* 47	4-642-814-01	FD GND PLATE	112	X-4622-371-1	ASSY SHIELD FLAP L
* 48	4-642-813-01	FD PLATE	113	X-4622-372-1	ASSY SHIELD FLAP R
49	4-641-656-12	SCREW (M2.5), 0 PLATE P	114	4-643-574-01	INSULATOR FAN
50	1-791-143-12	PWB, (FDD) FLEXIBLE	* 115	4-642-868-01	PLATE BAY B
51	1-772-212-11	3.5" 3MODE FLOPPY DISK DRIVE	* 116	4-642-867-01	PLATE BAY A
52	X-4622-388-3	ASSY FD BRKT UNDER	117	4-643-918-01	CUSHION ROM
53	4-643-832-02	DUMMY CARD	118	4-644-052-01	CUSHION IFX
54	4-642-229-11	TAPPING, 0 NUMBER SPECIAL HEAD	121	4-644-062-02	CUSHION BACK UP BATTERY
55	4-645-177-01	SCREW (M1.7X3.5)	122	4-643-828-01	ISOLATOR HDD
56	X-4622-917-2	BEZEL CD-RW ASSY	123	4-645-178-03	SHIELD (LCD FPC)
56	X-4622-322-2	ASSY BEZEL DVD-ROM	124	4-643-967-01	CUSHION (KEY)
57	1-796-063-11	CD-RW DRIVE (4X UJDA 330)	126	4-643-923-01	TAPE PAD (A)
57	1-772-657-11	DVD-ROM (8X)-SD-C2402	128	4-644-290-11	SPACER KEYBOARD
58	4-642-809-02	CD BRKT UPPER	* 129	4-642-792-01	FENCE LCD CN
59	1-791-142-11	PWB, (CD-ROM) FLEXIBLE	* 130	4-642-850-01	FENCE HDD CN
* 60	4-642-817-01	CD GND PLATE	* 131	4-642-874-01	BRACKET IFX

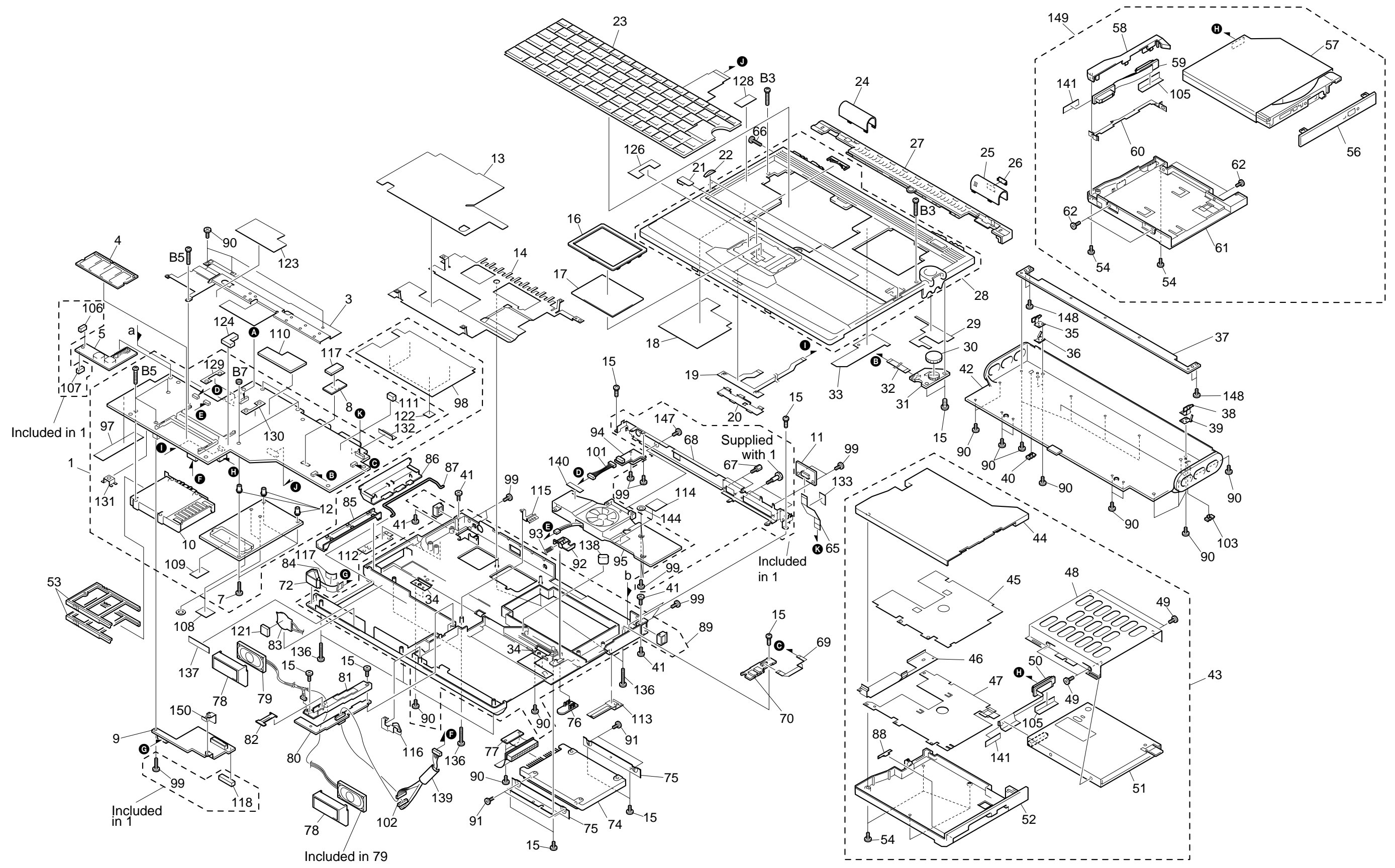
Confidential

Ref.No.	Part No.	Description
132	4-643-878-02	INSULATOR CN
133	4-643-975-01	INSULATOR IRDA
136	4-644-899-01	SCREW (M2), 0 NUMBER P3 KIND
137	4-645-523-01	SPACER BATTERY
138	4-645-548-01	GASKET BAY
139	4-645-549-02	SHIELD (BATT)
140	4-645-412-01	SPACER FAN
141	4-645-070-01	CD FPC SEAL
142	4-645-507-01	CUSHION TAPE CD-RW
143	4-645-768-01	CAP MODEM
144	4-645-339-01	WASHER P3
147	4-644-492-31	ACE (M2), LOCK
150	4-646-988-11	SCREW (M2 EG)
* 151	4-642-875-01	PLATE IFX
152	A-8047-510-A	ASSY BAY (CD-RW)
152	A-8022-331-A	DVD (SD-2402) OVERALL ASSY, MAIN
154	4-647-098-01	SHIELD (TOUCH PAD)

Ref.No.	Part No.	Description
B3	7-621-283-10	SCREW +P 2X10
B5	7-621-772-60	SCREW +B 2X12
B7	7-622-205-05	NUT M2 TYPE2



5-2. Main Section (XG500 Model)



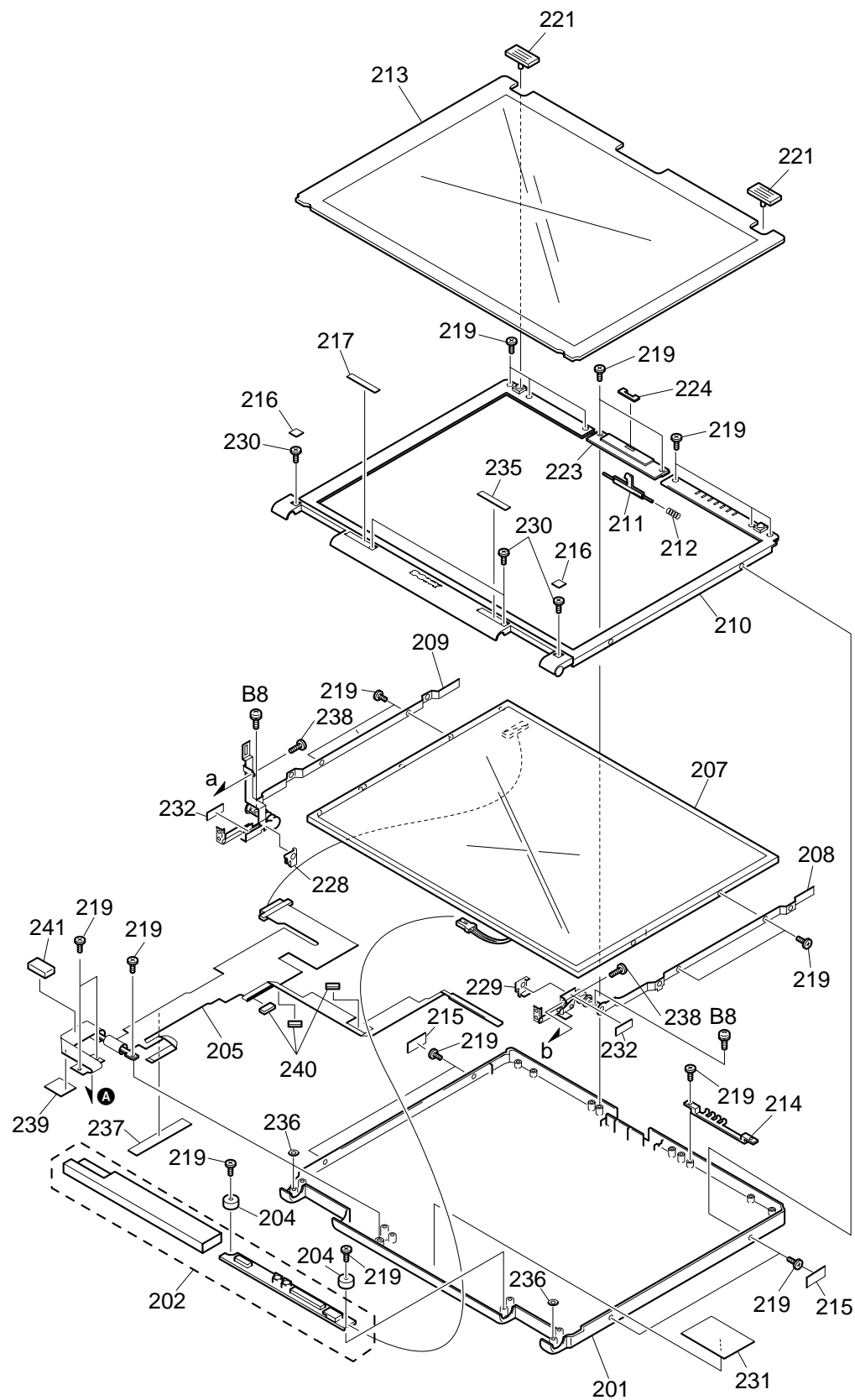
Ref.No.	Part No.	Description
1	A-8048-297-A	MBX-43 (P3 700) 1650 ASSY (S)
* 3	4-642-786-01	HEAT SINK U
4	8-759-665-37	IC KMM464S1724BT1-FL (128MB)
5	A-8066-166-A	COMPLETE PWB PWS-7
7	3-740-546-21	SCREW (M2)
8	A-8056-719-A	RO-38 (X) COMPLETE PWB
9	A-8066-164-A	COMPLETE PWB IFX-76 (U)
10	1-793-360-11	CONNECTOR, PC CARD (EJECTOR)
11	A-8056-331-A	COMPLETE PWB IFX-69
12	4-637-921-02	STAND OFF
* 13	4-643-383-01	INSULATOR HEAT (B)
* 14	4-642-787-02	HEAT SINK B
15	4-642-852-31	+B M2 X5
16	4-642-794-03	COVER (PAD)
17	1-772-529-11	PAD, TOUCH
18	4-643-379-01	INSULATOR PALM (L)
19	1-791-147-11	PWB, (PAD) FLEXIBLE PRINT
* 20	4-642-799-01	PLATE (SW)
* 21	4-642-842-01	SPRING (PAD), PLATE
22	4-642-954-01	CUSHION (PALM)
23	1-418-545-22	KEYBOARD UNIT
24	4-642-795-01	COVER HINGE (L)
25	4-642-796-01	COVER HINGE (R)
26	4-642-798-01	LENS IRDA
27	4-642-789-01	DISPLAY BASE
28	X-4622-287-5	ASSY HOU PALMREST
29	4-643-380-01	INSULATOR PALM (R)
30	4-642-855-01	DIAL
31	A-8056-327-A	COMPLETE PWB IFX-70
32	1-791-150-11	FFC (JOG)
33	4-643-381-01	INSULATOR PALM (M)
34	4-642-819-01	HINGE FLAP
35	X-4622-787-2	ASSY FLAP LOCK L
36	4-642-837-04	LOCK PLATE L
* 37	4-642-841-01	PLATE FLAP BASE
38	X-4622-788-2	ASSY FLAP LOCK R
39	4-642-838-01	LOCK PLATE R
40	4-642-839-02	LEVER L
41	4-641-726-51	SCREW (M2), SPECIAL HEAD
42	X-4622-675-1	ASSY HOU FLAP 2
43	A-8045-662-A	ASSY BAY (FD)
44	4-642-811-01	FD BRKT UPPER
* 45	4-642-956-01	INSULATOR FDD
* 46	4-642-815-01	FD UNDER PLATE
* 47	4-642-814-01	FD GND PLATE
* 48	4-642-813-01	FD PLATE
49	4-641-656-12	SCREW (M2.5), 0 PLATE P
50	1-791-143-11	PWB, (FDD) FLEXIBLE
51	1-772-212-11	3.5" 3MODE FLOPPY DISK DRIVE
52	X-4622-388-3	ASSY FD BRKT UNDER
53	4-643-832-02	DUMMY CARD
54	4-642-229-11	TAPPING, 0 NUMBER SPECIAL HEAD
56	X-4622-322-2	ASSY BEZEL DVD-ROM
57	1-772-657-11	DVD-ROM (8X)-SD-C2402
58	4-642-809-02	CD BRKT UPPER
59	1-791-142-11	PWB, (CD-ROM) FLEXIBLE
* 60	4-642-817-01	CD GND PLATE
61	X-4622-387-6	ASSY CD BRKT UNDER
62	4-641-726-31	SCREW (M2), SPECIAL HEAD
65	1-791-145-11	FFC (IRDA)

Ref.No.	Part No.	Description
66	4-641-655-11	SCREW (M2), + SPECIAL HEAD
* 67	4-635-966-01	SCREW (HEX)
* 68	4-642-776-01	BRACKET I/O
69	1-791-146-11	FFC (AUDIO)
70	A-8056-329-A	COMPLETE PWB ANL-17
72	1-793-462-12	JACK, MODULAR
74	1-772-997-11	HDD (10.0GB-DJSA-210)
* 75	4-642-777-01	HD BRACKET (A)
76	4-642-781-02	BUTTON BAY LATCH
77	1-791-144-11	PWB, (HDD) FLEXIBLE
* 78	4-643-215-01	CUSION SPEAKER
79	1-529-455-11	SPEAKER, (40X20MM)
80	A-8056-325-A	COMPLETE PWB CNX-75
81	4-642-783-01	COVER (BATT)
82	4-642-784-01	LATCH DETECTOR
83	1-756-000-11	BATTERY, V/L RICHARGEABL
84	1-791-186-12	FPC (CNX-80)
85	4-642-876-01	COVER (FFC)
86	4-642-778-04	DOOR BATTERY
87	4-642-779-01	SPRING HD DOOR
88	4-642-816-01	FD LENZ
89	X-4622-286-4	ASSY HOU BOTTOM
90	4-641-726-21	SCREW (M2), SPECIAL HEAD
91	4-635-301-01	SCREW M3X4
92	4-642-780-01	LATCH BAY
93	4-642-782-01	BAY LATCH SPRING
94	A-8056-323-A	COMPLETE PWB CNX-74
95	1-763-466-11	FAN, DC
97	4-643-214-01	INSULATOR PC CARD
98	4-643-382-02	INSULATOR HDD
99	4-641-726-01	SCREW (M2), SPECIAL HEAD
101	1-791-178-11	CABLE, DC JACK PC BOARD
102	1-791-177-11	CABLE, PC BOARD CONNECTION
103	4-642-840-01	LEVER R
* 105	4-642-955-01	INSULATOR BAY FPC
106	4-643-916-01	CUSHION PSW A
107	4-643-917-01	CUSHION PSW B
108	4-643-825-01	THERMAL SHEET NC
109	4-644-350-01	SHEET, THERMAL
110	4-643-826-01	THERMAL SHEET NM
111	4-643-915-01	SPACER SW POWER
112	X-4622-371-1	ASSY SHIELD FLAP L
113	X-4622-372-1	ASSY SHIELD FLAP R
114	4-643-574-01	INSULATOR FAN
* 115	4-642-868-01	PLATE BAY B
* 116	4-642-867-01	PLATE BAY A
117	4-643-918-01	CUSHION ROM
118	4-644-052-01	CUSHION IFX
121	4-644-062-02	CUSHION BACK UP BATTERY
122	4-643-828-01	ISOLATOR HDD
123	4-645-178-03	SHIELD (LCD FPC)
124	4-643-967-01	CUSHION (KEY)
126	4-643-923-01	TAPE PAD (A)
128	4-644-290-11	SPACER KEYBOARD
* 129	4-642-792-01	FENCE LCD CN
* 130	4-642-850-01	FENCE HDD CN
* 131	4-642-874-01	BRACKET IFX
132	4-643-878-02	INSULATOR CN
133	4-643-975-01	INSULATOR IRDA
136	4-644-899-01	SCREW (M2), 0 NUMBER P3 KIND

Ref.No.	Part No.	Description
137	4-645-523-01	SPACER BATTERY
138	4-645-548-01	GASKET BAY
139	4-645-549-02	SHIELD (BATT)
140	4-645-412-01	SPACER FAN
141	4-645-070-01	CD FPC SEAL
144	4-645-339-01	WASHER P3
147	4-644-492-31	ACE (M2), LOCK
148	4-646-988-11	SCREW (M2 EG)
149	A-8022-331-A	DVD (SD-C2402) OVERALL ASSY, MAIN
* 150	4-642-875-01	PLATE IFX

Ref.No.	Part No.	Description
B3	7-621-283-10	SCREW +P 2X10
B5	7-621-772-60	SCREW +B 2X12
B7	7-622-205-05	NUT M2 TYPE2

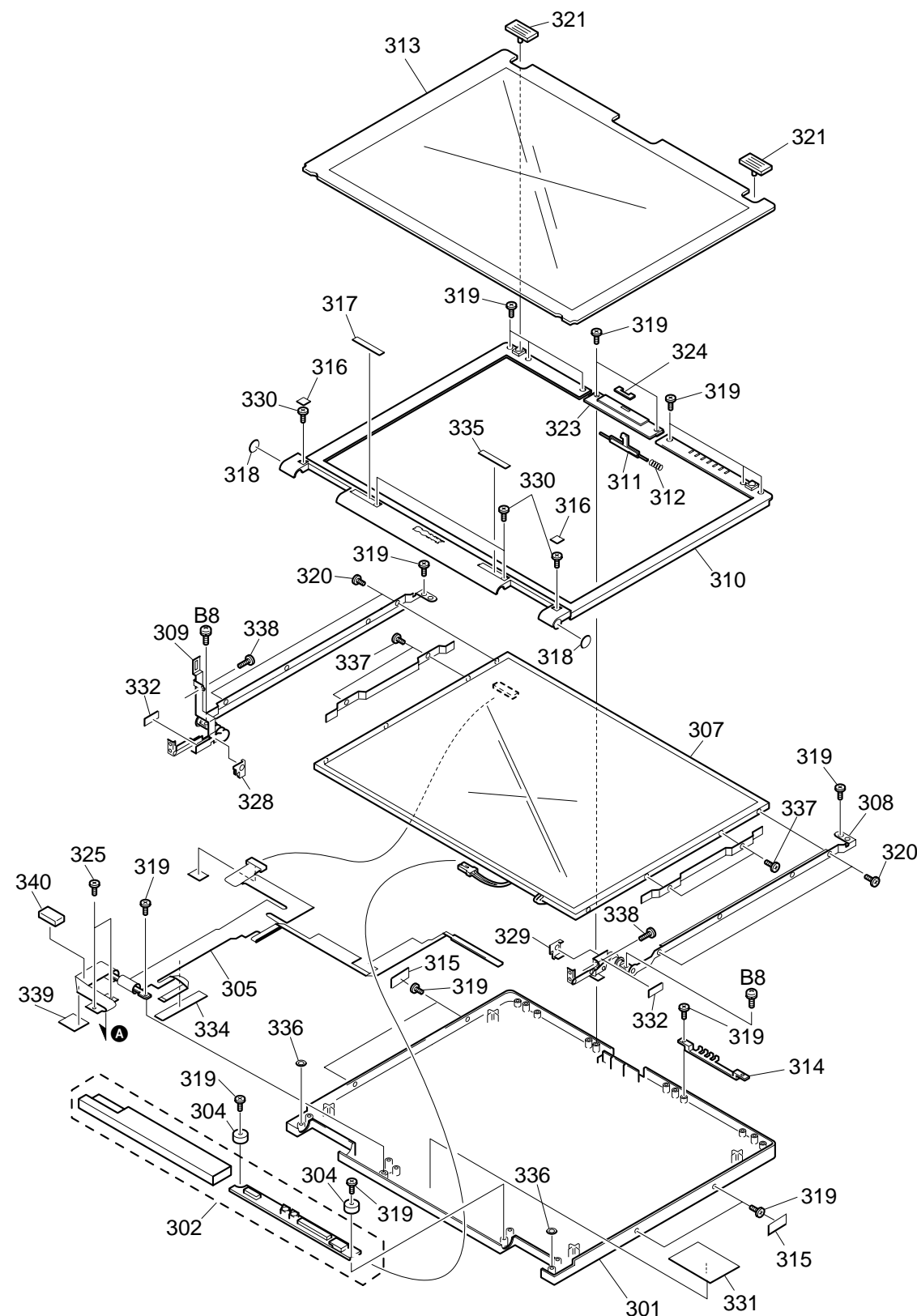
5-3. LCD Section (XG700 Model) – Made by HI –



Ref.No.	Part No.	Description
201	X-4622-634-2	ASSY HOU DISPLAY 14
202	1-418-557-31	INVERTOR UNIT
204	4-635-274-01	BRACKET INVERTER
205	1-677-447-11	PWB, LCD FLEXIBLE PRINT
207	A-8046-809-A	LCD (14 HI) 1220 ASSY (S)
208	X-4622-606-3	HINGE ASSY 14 (R)
209	X-4622-605-3	HINGE ASSY 14 (L)
210	X-4622-633-2	ASSY HOU BEZEL 14
211	4-642-807-01	LATCH (LCD)
212	4-637-903-01	SPRING LATCH
213	4-647-669-01	PANEL (14), FLASH
214	4-642-803-01	LED LENZ (A)
215	4-646-766-01	SEAL, LCD SIDE
216	4-643-406-01	SEAL LCD FRONT SCREW
217	4-643-407-01	SEAL LCD FRONT SCREW (L)
219	4-641-726-51	SCREW (M2), SPECIAL HEAD
221	X-4622-382-1	PANEL LOCK ASSY
223	4-642-856-01	LATCH COVER
224	4-643-409-01	CUSHION LATCH
228	4-642-829-01	PLATE FLAP L
229	4-642-830-01	PLATE FLAP R
230	3-719-408-11	SCREW (B2), TAPPING, P3
231	4-645-172-01	HEAT SPREADER LCD
232	4-644-541-11	SPACER HINGE
235	4-652-079-01	LABEL ID
236	4-644-484-01	WASHER
237	4-644-292-02	TAPE LCD
238	4-642-852-31	+B M2
239	4-645-872-01	TAPE FPC LCD
240	4-646-986-01	SPACER, LCD FLEXIBLE
241	4-653-379-01	LCD FPC HOLDER

Ref.No.	Part No.	Description
B8	7-628-254-20	SCREW +PS 2.6X8

5-4. LCD Section (XG500 Model) – Made by SA –



<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
301	X-4622-549-2	ASSY HOU DISPLAY CTO
302	1-418-557-31	INVERTOR UNIT
304	4-635-274-01	BRACKET INVERTER
305	1-676-513-11	CABLE FPC (13.3" TFT XGA SA)
307	1-803-642-11	PANEL, LCD
308	X-4622-512-3	HINGE ASSY CTO R
309	X-4622-511-3	HINGE ASSY CTO L
310	X-4622-550-1	ASSY HOU BEZEL CTO
311	4-642-807-01	LATCH (LCD)
312	4-637-903-01	SPRING LATCH
313	4-642-802-01	FLASH PANEL
314	4-642-803-01	LED LENZ (A)
315	4-643-405-01	SEAL LCD SIDE SCREW
316	4-643-406-01	SEAL LCD FRONT SCREW
317	4-643-407-11	SEAL LCD FRONT SCREW (L)
318	4-643-408-01	SEAL LCD SIDE
319	4-641-726-51	SCREW (M2), SPECIAL HEAD
320	4-641-726-71	SCREW (M2), SPECIAL HEAD
321	X-4622-382-1	PANEL LOCK ASSY
323	4-642-856-01	LATCH COVER
324	4-643-409-01	CUSHION LATCH
325	4-641-726-21	SCREW (M2) , SPECIAL HEAD
326	4-642-852-11	+B M2
328	4-642-829-01	PLATE FLAP L
329	4-642-830-01	PLATE FLAP R
330	3-719-408-11	SCREW (B2), TAPPING, P3
331	4-645-172-01	HEAT SPREADER LCD
332	4-644-541-01	SPACER HINGE
334	4-644-292-02	TAPE LCD
335	4-652-079-21	LABEL ID
336	4-644-484-01	WASHER
337	3-039-037-01	SCREW (M2X2.5)
338	4-642-852-31	+B M2
339	4-645-872-01	TAPE FPC LCD
340	4-653-379-01	LCD FPC HOLDER
B8	7-628-254-20	SCREW +PS 2.6X8

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
		ACCESSORIES

△	1-757-562-21	CORD, POWER
401	X-4622-412-1	WEIGHT SAVER ASSY
402	A-8045-662-A	ASSY BAY (FD)
△ 403	1-476-342-12	ADAPTOR, AC
404	1-528-935-12	PACK, LITHIUM ION BATTERY
405	1-791-149-12	FDD-CABLE
406	A-8047-510-A	(XG700)...ASSY BAY (CD-RW)
	4-653-219-11	WELCOME MAT
	4-653-220-11	USER GUIDE

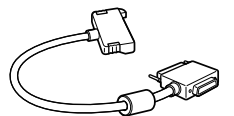
LOOK AT EXPLODED VIEWS OF THE PART

407 PCGA-PSX1

401
Weight Saver (1)



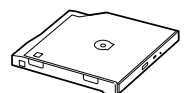
405
Floppy Disk Drive Cable (1)



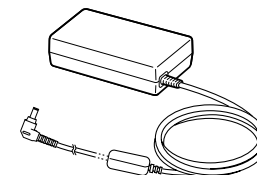
402
ASSY BAY (FD) (1)



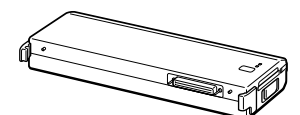
406
ASSY BAY (CD-RW) (1)
(XG700 Model only)



403
AC Adaptor (1)

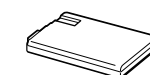




407
Mini Docking Station (1)
(PCGA-PSX1)




The Mini Docking Station itself does not have the part No. Refer to the Exploded Views of PCGA-PSX1 Service Manual (9-872-034-11).

404
Battery Pack (1)



The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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PCG-XG500/XG700 (UC)

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